YAMAHA

Clavinova®

Reference Booklet
Referenzhandbuch
Guide de référence
Manual de referencia

CVP-201

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Category	Voice Name	Voice # MSB #	LSB #	Program Change #
Piano	Grand Piano	0	112	0
	Bright Piano	0	112	1
	Mellow Piano	0	114	0
	Rock Piano	0	113	1
	Midi Grand	0	115	2
	Harpsichord1	0	112	6
	Harpsichord2	0	113	6
	Grand Harpsi	0	115	6
	Honky Tonk	0	112	3
	NewAge Piano	0	118	2
E.Piano	Stage EP 1	0	112	4
	Galaxy EP	0	118	5
	New Tines	0	113	5
	Funk EP	0	113	4
	DX EP Modern	0	115	5
	CP80	0	116	2
	Tremolo EP	0	118	4
	Hyper Tines	0	117	5
	Venus EP	0	116	5
	Clavi.	0	112	7
	Dream EP	0	114	5
	Stage EP 2	0	117	4
	Wah Clavi.	0	113	7
	DX treme	0	113	92
	Funky Clavi.	0	114	7
	Galaxian EP	0	113	100
	DX-EP & Str.	0	118	88
Guitar	Spanish Gtr.	0	113	24
	12Str.Guitar	0	115	25
	Solid Guitar	0	115	27
	Bright Clean	0	113	27
	Clean Guitar	0	112	27
	Jazz Guitar1	0	113	26
	Mute Guitar	0	112	28
	Banjo	0	112	105
	HawaiianGtr.	0	114	26
	Dist. Guitar	0	112	30
	Smooth Nylon	0	114	24
	Elec12string	0	126	27
	Folk Guitar1	0	116	25
	Jazz Guitar2	0	112	26
	OctaveGuitar	0	115	26
	Gut Guitar	0	112	24
	Folk Guitar2	0	112	25
	Pedal Steel	0	114	27
Synth	Golden Age	0	115	88
	Insomnia	0	113	94
	Wave 2010	0	114	95
	NewAge Pad	0	113	88
	Fire Wire	0	113	81
	Wire Lead	0	114	81
	Blaster	0	112	87

Category	Voice Name	Voice # MSB #	LSB #	Program Change #
Synth	Square Lead	0	112	80
	Analogon	0	115	81
	Saw. Lead	0	112	81
	Cyber Pad	0	113	99
	Choir Pad	0	112	91
	Atmosphere	0	112	99
	Brass Pad	0	112	90
	Warm Pad	0	112	89
	Equinox	0	112	94
	Stardust	0	112	96
	Millenium	0	114	88
	Strings Pad	0	112	51
	Wave 2001	0	112	95
	Harp Pad	0	112	88
	DX Pad	0	112	92
Organ	Pipe Organ	0	112	19
	ChapelOrgan1	0	115	19
	ChapelOrgan2	0	116	19
	Accordion	0	112	21
	Tutti Accord	0	115	21
	Rotor Organ	0	112	18
	Jazz Organ 1	0	114	17
	Rock Organ	0	116	18
	Elec. Organ	0	113	16
	Jazz Organ 2	0	117	16
	Class. Organ	0	113	19
	ChapelOrgan3	0	114	19
	Tango Accrd.	0	112	23
	Jazz Organ 3	0	115	16
	Perc. Organ	0	115	17
	Theatre Org.	0	114	16
	60's Organ	0	113	17
Strings / Choir	OrchStrings1	0	115	48
	ClassicalStr	0	114	48
	Popular Str	0	116	48
	Vivaldi Str	0	116	49
	Chamber Str	0	113	48
	Violin	0	112	40
	Cello	0	114	42
	Choir	0	112	52
	Air Choir	0	112	54
	Pizzicato	0	112	45
	OrchStrings2	0	117	48
	Strings Slow	0	113	49
	Str.Quartet	0	113	40
	Fiddle	0	112	110
	Choir Oohs	0	112	53
	Choir Slow	0	113	52
	Harp	0	112	46
	OrchestraHit	0	112	55

Voice List / Stimmenverzeichnis /Liste des voix / Lista de voces

Category	Voice Name	Voice #		
		MSB #	LSB #	Program Change #
Brass	SweetTrumpet	0	115	56
	Trombone	0	114	57
	MuteTrumpet1	0	113	59
	Soft Trumpet	0	114	56
	Brass Band	0	118	57
	BrassSection	0	112	61
	Mellow Brass	0	123	61
	Big Brass	0	114	61
	Analog Brass	0	112	63
	Synth Brass	0	112	62
	Solo Trumpet	0	112	56
	Trb.Section	0	113	57
	MuteTrumpet2	0	112	59
	Flugel Horn	0	113	56
	Tuba	0	113	58
	French Horn	0	112	60
	BallroomBrs	0	114	59
Sax / Flute	Breath Tenor	0	115	66
	Flute	0	112	73
	Clarinet	0	112	71
	Breath Alto	0	115	65
	Baritone Sax	0	113	67
	Soprano Sax	0	112	64
	Pan Flute 1	0	113	75
	Harmonica	0	112	22
	Sax Section	0	114	65
	WindEnsemble	0	113	73
	Tenor Sax	0	116	66
	Alto Sax	0	112	65
	Oboe	0	112	68
	Piccolo	0	113	72
	Bassoon	0	113	70
	Whistle	0	112	78
	English Horn	0	112	69
	Recorder	0	113	74
	Pan Flute 2	0	112	75
Bass	Acous.Bass	0	112	32
	Elec. Bass	0	113	33
	Finger Bass	0	114	33
	E. Bass Slap	0	112	33
	Pick Bass	0	112	34
	FretlessBass	0	112	35
	Slap Bass	0	112	36
	Synth Bass 1	0	112	38
	Analog Bass	0	113	39
	Bass&Cymbal	0	114	32
	Bert's Bass	0	113	34
	Synth Bass 2	0	112	39
	Hi Q Bass	0	114	38
	Synth Bass 3	0	113	38

Category	Voice Name	Voice #		
		MSB #	LSB #	Program Change #
Percussion	Vibes	0	112	11
	Marimba	0	112	12
	Music Box	0	113	10
	Steel Drums	0	112	114
	Celesta	0	113	8
	Jazz Vibes	0	113	11
	Xylophone	0	112	13
	Glockenspiel	0	113	9
	TubularBells	0	112	14
	Timpani	0	112	47
	Xylomarimba	0	113	12
	Dulcimer	0	112	15
	Kalimba	0	112	108
	Standard Kit	127	0	0
	Standard2Kit	127	0	1
	Room Kit	127	0	8
	Rock Kit	127	0	16
	Electro Kit	127	0	24
	Analog Kit	127	0	25
	Dance Kit	127	0	27
	Jazz Kit	127	0	32
	Brush Kit	127	0	40
	Classic Kit	127	0	48
	SFX1 Kit	126	0	0
	SFX2 Kit	126	0	1
Ensemble	1 Oct. Piano	0	113	3
	2 Oct. Piano	0	114	3
	Piano & Str	0	118	1
	Piano Heaven	0	114	100
	Piano&Choir	0	118	0
	Orchestral 1	0	117	49
	Orchestral 2	0	118	49
	Orchestral 3	0	118	68
	Orchestral 4	0	116	68
	Orchestral 5	0	117	68
	Baroque	0	118	6
	Flute&Mallet	0	118	73
	Guitar&Flute	0	118	24
	Guitar&Str	0	115	99
	TwelveString	0	114	99
	Hallelujah	0	113	53
	Evensong 1	0	118	53
	Evensong 2	0	118	52
	X'mas Organ	0	118	19
	Sunrise Pad	0	116	100
	Brass&Sax 1	0	118	65
	Brass&Sax 2	0	118	66
	Moonsax 1	0	117	71
	Moonsax 2	0	118	71
	Trump.&Clari	0	118	56
	Brass&Lyra	0	118	63
	Flute&Lyra	0	118	72
	ElectricJazz	0	116	26
	GalaxyChoir	0	117	100
	Heaven Stack	0	115	100

XG

Voice Name	Voice #		
	MSB #	LSB #	Program Change #
GrandPno	0	0	0
GrndPnoK	0	1	0
MelloGrP	0	18	0
PianoStr	0	40	0
Dream	0	41	0
BritePno	0	0	1
BritPnoK	0	1	1
El.Grand	0	0	2
ElGrPnoK	0	1	2
Det.CP80	0	32	2
LayerCP1	0	40	2
LayerCP2	0	41	2
HnkyTonk	0	0	3
HnkyTnkK	0	1	3
E.Piano1	0	0	4
El.Pno1K	0	1	4
MelloEP1	0	18	4
Chor.EP1	0	32	4
HardEl.P	0	40	4
VX El.P1	0	45	4
60sEl.P1	0	64	4
E.Piano2	0	0	5
El.Pno2K	0	1	5
Chor.EP2	0	32	5
DX Hard	0	33	5
DXLegend	0	34	5
DX Phase	0	40	5
DX+Analg	0	41	5
DXKotoEP	0	42	5
VX El.P2	0	45	5
Harpsi.	0	0	6
Harpsi.K	0	1	6
Harpsi.2	0	25	6
Harpsi.3	0	35	6
Clavi	0	0	7
Clavi K	0	1	7
ClaviWah	0	27	7
PulseClv	0	64	7
PierceCl	0	65	7
Celesta	0	0	8
Glocken	0	0	9
MusicBox	0	0	10
Orgel	0	64	10
Vibes	0	0	11
Vibes K	0	1	11
HardVibe	0	45	11
Marimba	0	0	12
MarimbaK	0	1	12
SineMrmb	0	64	12
Balimba	0	97	12
Log Drum	0	98	12
Xylophon	0	0	13
TubulBel	0	0	14
ChrchBel	0	96	14
Carillon	0	97	14
Dulcimer	0	0	15
Dulcimr2	0	35	15
Cimbalom	0	96	15
Santur	0	97	15
DrawOrgn	0	0	16

Voice Name	Voice #		
	MSB #	LSB #	Program Change #
DetDrwOr	0	32	16
60sDrOr1	0	33	16
60sDrOr2	0	34	16
70sDrOr1	0	35	16
DrawOrg2	0	36	16
60sDrOr3	0	37	16
EvenBar	0	38	16
16+2'2/3	0	40	16
Organ Ba	0	64	16
70sDrOr2	0	65	16
CheezOrg	0	66	16
DrawOrg3	0	67	16
PercOrgn	0	0	17
70sPcOr1	0	24	17
DetPrcOr	0	32	17
Lite Org	0	33	17
PercOrg2	0	37	17
RockOrgn	0	0	18
RotaryOr	0	64	18
SloRotar	0	65	18
FstRotar	0	66	18
ChrchOrg	0	0	19
ChurOrg3	0	32	19
ChurOrg2	0	35	19
NotreDam	0	40	19
OrgFlute	0	64	19
TrmOrgFl	0	65	19
ReedOrgn	0	0	20
Puff Org	0	40	20
Acordion	0	0	21
AccordIt	0	32	21
Harmnica	0	0	22
Harmo. 2	0	32	22
TangoAcd	0	0	23
TngoAcd2	0	64	23
NylonGtr	0	0	24
NylonGt2	0	16	24
NylonGt3	0	25	24
VelGtHrm	0	43	24
Ukulele	0	96	24
SteelGtr	0	0	25
SteelGt2	0	16	25
12StrGtr	0	35	25
Nyln&Stl	0	40	25
Stl&Body	0	41	25
Mandolin	0	96	25
Jazz Gtr	0	0	26
MelloGtr	0	18	26
Jazz Amp	0	32	26
CleanGtr	0	0	27
ChorusGt	0	32	27
Mute Gtr	0	0	28
FunkGtr1	0	40	28
MuteStlG	0	41	28
FunkGtr2	0	43	28
Jazz Man	0	45	28
Ovrdrive	0	0	29
Gt.Pinch	0	43	29
Dist.Gtr	0	0	30
FeedbkGt	0	40	30

Voice Name	Voice #		
	MSB #	LSB #	Program Change #
FeedbGt2	0	41	30
GtrHarmo	0	0	31
GtFeedbk	0	65	31
GtrHrmo2	0	66	31
Aco.Bass	0	0	32
JazzRthm	0	40	32
VXUprght	0	45	32
FngrBass	0	0	33
FingrDrk	0	18	33
FlangeBa	0	27	33
Ba&DstEG	0	40	33
FngrSlap	0	43	33
FngBass2	0	45	33
Mod.Bass	0	65	33
PickBass	0	0	34
MutePkBa	0	28	34
Fretless	0	0	35
Fretles2	0	32	35
Fretles3	0	33	35
Fretles4	0	34	35
SynFretl	0	96	35
SmthFrt1	0	97	35
SlapBas1	0	0	36
ResoSlap	0	27	36
PunchThm	0	32	36
SlapBas2	0	0	37
VeloSlap	0	43	37
SynBass1	0	0	38
SynBa1Dk	0	18	38
FastResB	0	20	38
AcidBass	0	24	38
Clv Bass	0	35	38
TechnoBa	0	40	38
Orbiter	0	64	38
Sqr.Bass	0	65	38
RubberBa	0	66	38
Hammer	0	96	38
SynBass2	0	0	39
MelloSBa	0	6	39
Seq Bass	0	12	39
ClkSynBa	0	18	39
SynBa2Dk	0	19	39
SmthSynB	0	32	39
ModulrBa	0	40	39
DX Bass	0	41	39
X WireBa	0	64	39
Violin	0	0	40
Slow Vln	0	8	40
Viola	0	0	41
Cello	0	0	42
Contrabs	0	0	43
Trem.Str	0	0	44
SlwTrStr	0	8	44
Susp. Str	0	40	44
Pizz.Str	0	0	45
Harp	0	0	46
YangChin	0	40	46
Timpani	0	0	47
Strings1	0	0	48
S.Strngs	0	3	48

XG

Voice Name	Voice #		
	MSB #	LSB #	Program Change #
Slow Str	0	8	48
Arco Str	0	24	48
60sStrng	0	35	48
Orchestr	0	40	48
Orchstr2	0	41	48
TremOrch	0	42	48
Velo.Str	0	45	48
Strings2	0	0	49
S.SlwStr	0	3	49
LegatoSt	0	8	49
Warm Str	0	40	49
Kingdom	0	41	49
70s Str	0	64	49
Strings3	0	65	49
Syn Str1	0	0	50
Reso Str	0	27	50
Syn Str4	0	64	50
Syn Str5	0	65	50
Syn Str2	0	0	51
ChoirAah	0	0	52
S.Choir	0	3	52
Ch.Aahs2	0	16	52
MelChoir	0	32	52
ChoirStr	0	40	52
VoiceOoh	0	0	53
SynVoice	0	0	54
SyVoice2	0	40	54
Choral	0	41	54
AnaVoice	0	64	54
Orch.Hit	0	0	55
OrchHit2	0	35	55
Impact	0	64	55
Trumpet	0	0	56
Trumpet2	0	16	56
BriteTrp	0	17	56
Warm Trp	0	32	56
Trombone	0	0	57
Trmbone2	0	18	57
Tuba	0	0	58
Tuba 2	0	16	58
Mute Trp	0	0	59
Fr.Horn	0	0	60
FrHrSolo	0	6	60
FrHorn 2	0	32	60
HornOrch	0	37	60
BrssSect	0	0	61
Tp&TbSec	0	35	61
BrssSec2	0	40	61
HiBrass	0	41	61
MelloBrs	0	42	61
SynBrss1	0	0	62
Quack Br	0	12	62
RezSynBr	0	20	62
PolyBrss	0	24	62
SynBrss3	0	27	62
JumpBrss	0	32	62
AnVelBr1	0	45	62
AnVelBr2	0	64	62
SynBrss2	0	0	63
Soft Brs	0	18	63
SynBrss4	0	40	63

Voice Name	Voice #		
	MSB #	LSB #	Program Change #
ChoirBrs	0	41	63
VelBrss2	0	45	63
AnaBrss2	0	64	63
SprnoSax	0	0	64
Alto Sax	0	0	65
Sax Sect	0	40	65
HyprAlto	0	43	65
TenorSax	0	0	66
BrthTnSx	0	40	66
SoftTenr	0	41	66
TnrSax 2	0	64	66
Bari.Sax	0	0	67
Oboe	0	0	68
Eng.Horn	0	0	69
Bassoon	0	0	70
Clarinet	0	0	71
Piccolo	0	0	72
Flute	0	0	73
Recorder	0	0	74
PanFlute	0	0	75
Bottle	0	0	76
Shakhchi	0	0	77
Whistle	0	0	78
Ocarina	0	0	79
SquareLd	0	0	80
SquarLd2	0	6	80
LMSquare	0	8	80
Hollow	0	18	80
Shroud	0	19	80
Mellow	0	64	80
SoloSine	0	65	80
SineLead	0	66	80
Saw Lead	0	0	81
Saw Ld 2	0	6	81
ThickSaw	0	8	81
Dyna Saw	0	18	81
Digi Saw	0	19	81
Big Lead	0	20	81
HeavySyn	0	24	81
WaspySyn	0	25	81
PulseSaw	0	40	81
Dr. Lead	0	41	81
VeloLead	0	45	81
Seq Ana.	0	96	81
CaliopLd	0	0	82
PureLead	0	65	82
Chiff Ld	0	0	83
Rubby	0	64	83
CharanLd	0	0	84
DistLead	0	64	84
WireLead	0	65	84
Voice Ld	0	0	85
SynthAah	0	24	85
Vox Lead	0	64	85
Fifth Ld	0	0	86
Big Five	0	35	86
Bass&Ld	0	0	87
Big&Low	0	16	87
Fat&Prky	0	64	87
Soft Wrl	0	65	87
NewAgePd	0	0	88

Voice Name	Voice #		
	MSB #	LSB #	Program Change #
Fantasy	0	64	88
Warm Pad	0	0	89
ThickPad	0	16	89
Soft Pad	0	17	89
Sine Pad	0	18	89
Horn Pad	0	64	89
RotarStr	0	65	89
PolySyPd	0	0	90
PolyPd80	0	64	90
ClickPad	0	65	90
Ana. Pad	0	66	90
SquarPad	0	67	90
ChoirPad	0	0	91
Heaven	0	64	91
Itopia	0	66	91
CC Pad	0	67	91
BowedPad	0	0	92
Glacier	0	64	92
GlassPad	0	65	92
MetalPad	0	0	93
Tine Pad	0	64	93
Pan Pad	0	65	93
Halo Pad	0	0	94
SweepPad	0	0	95
Shwimmer	0	20	95
Converge	0	27	95
PolarPad	0	64	95
Celstial	0	66	95
Rain	0	0	96
ClaviPad	0	45	96
HrmoRain	0	64	96
AfrcnWnd	0	65	96
Carib	0	66	96
SoundTrk	0	0	97
Prologue	0	27	97
Ancestrl	0	64	97
Crystal	0	0	98
SynDrCmp	0	12	98
Popcorn	0	14	98
TinyBell	0	18	98
RndGlock	0	35	98
GlockChi	0	40	98
ClearBel	0	41	98
ChorBell	0	42	98
SynMalet	0	64	98
SftCryst	0	65	98
LoudGlok	0	66	98
ChrstBel	0	67	98
VibeBell	0	68	98
DigiBell	0	69	98
AirBells	0	70	98
BellHarp	0	71	98
Gamelmba	0	72	98
Atmosphr	0	0	99
WarmAtms	0	18	99
HollwRls	0	19	99
Nylon EP	0	40	99
NylnHarp	0	64	99
Harp Vox	0	65	99
AtmosPad	0	66	99
Planet	0	67	99

XG

Voice Name	Voice #		
	MSB #	LSB #	Program Change #
Bright	0	0	100
FantaBel	0	64	100
Smokey	0	96	100
Goblins	0	0	101
GobSynth	0	64	101
Creeper	0	65	101
Ring Pad	0	66	101
Ritual	0	67	101
ToHeaven	0	68	101
Night	0	70	101
Glisten	0	71	101
BelChoir	0	96	101
Echoes	0	0	102
Echoes 2	0	8	102
Echo Pan	0	14	102
EchoBell	0	64	102
Big Pan	0	65	102
SynPiano	0	66	102
Creation	0	67	102
StarDust	0	68	102
Reso&Pan	0	69	102
Sci-Fi	0	0	103
Starz	0	64	103
Sitar	0	0	104
DetSitar	0	32	104
Sitar 2	0	35	104
Tambra	0	96	104
Tamboura	0	97	104
Banjo	0	0	105
MuteBnjo	0	28	105
Rabab	0	96	105
Gopichnt	0	97	105
Oud	0	98	105
Shamisen	0	0	106
Koto	0	0	107
Taisho-k	0	96	107
Kanoon	0	97	107
Kalimba	0	0	108
Bagpipe	0	0	109

Voice Name	Voice #		
	MSB #	LSB #	Program Change #
Fiddle	0	0	110
Shanai	0	0	111
Shanai 2	0	64	111
Pungi	0	96	111
Hichriki	0	97	111
TnklBell	0	0	112
Bonang	0	96	112
Altair	0	97	112
Gamelan	0	98	112
S.Gamlan	0	99	112
Rama Cym	0	100	112
AsianBel	0	101	112
Agogo	0	0	113
SteelDrm	0	0	114
GlasPerc	0	97	114
ThaiBell	0	98	114
WoodBlok	0	0	115
Castanet	0	96	115
TaikoDrm	0	0	116
Gr.Cassa	0	96	116
MelodTom	0	0	117
Mel Tom2	0	64	117
Real Tom	0	65	117
Rock Tom	0	66	117
Syn Drum	0	0	118
Ana Tom	0	64	118
ElecPerc	0	65	118
RevCymbl	0	0	119
FretNoiz	0	0	120
BrthNoiz	0	0	121
Seashore	0	0	122
Tweet	0	0	123
Telphone	0	0	124
Helicptr	0	0	125
Applause	0	0	126
Gunshot	0	0	127
CuttngNz	64	0	0
CttngNz2	64	0	1
Str Slap	64	0	3

Voice Name	Voice #		
	MSB #	LSB #	Program Change #
Fl.KClik	64	0	16
Shower	64	0	32
Thunder	64	0	33
Wind	64	0	34
Stream	64	0	35
Bubble	64	0	36
Feed	64	0	37
Dog	64	0	48
Horse	64	0	49
Tweet 2	64	0	50
Ghost	64	0	54
Maou	64	0	55
Tel.Dial	64	0	64
DoorSqek	64	0	65
DoorSlam	64	0	66
ScratchC	64	0	67
ScratchS	64	0	68
WindChim	64	0	69
Telphon2	64	0	70
CarEIgnt	64	0	80
CarTSqel	64	0	81
Car Pass	64	0	82
CarCrash	64	0	83
Siren	64	0	84
Train	64	0	85
JetPlane	64	0	86
Starship	64	0	87
Burst	64	0	88
Coaster	64	0	89
Submarin	64	0	90
Laugh	64	0	96
Scream	64	0	97
Punch	64	0	98
Heart	64	0	99
Footstep	64	0	100
MchinGun	64	0	112
LaserGun	64	0	113
Xplosion	64	0	114
Firework	64	0	115

Demo Songs / Demo-Songs / Morceaux de démo / Canciones de demostración

SONG DEMO

	Title	Composer
Song 1	Klavier Konzert a moll op.16 (Piano Concert a minor op.16)	E.Grieg
Song 3	Beautiful Dreamer	S.C.Foster
Song 4	Annie Laurie	Traditional

VOICE DEMO

	Title	Composer
PIANO	Walzer op.70-1	F.Chopin
SYNTHESIZER	Bruyeres	C.A.Debussy
ORGAN	Choralvorspiele “Ich ruf’ zu dir, Herr Jesus Christ”	J.S.Bach
PERCUSSION	Air de Ballet	M.Moszkowski
XG	TREPAK from “Nutcracker Suite” op.71a	P.I.Tschaikovsky

- *Some of the demonstration pieces listed above are specially-arranged excerpts from the original compositions listed above. All other songs are original (©2001 Yamaha Corporation).*
- *Bei manchen der oben aufgelisteten Demostücke handelt es sich um Auszüge aus den Originalkompositionen mit speziellem Arrangement. Alle anderen Stücke sind eigene Kompositionen (© 2001 Yamaha Corporation).*
- *Certains des morceaux de démonstration énumérés ci-dessus sont de courts extraits des compositions originales. Tous les autres morceaux sont des créations originales (© 2001 Yamaha Corporation).*
- *Alguna de las piezas de demostración arriba listadas son exceptos especialmente preparados de las composiciones originales de arriba. Todas las otras canciones son originales (© 2001 Yamaha Corporation.)*

Drum/key Assignment List / Verzeichnis der Liste d'assignation instrument de batterie/ Lista de asignaciones de teclas/batería

Bank Select MSB					127	127	127	127	127	127
Bank Select LSB					0	0	0	0	0	0
Program # (1-128)					1	2	9	17	25	26
Keyboard Note	MIDI Note #	MIDI Note	Key off	Alternate assign	Standard Kit	Standard 2 Kit	Room Kit	Rock Kit	Electro Kit	Analog Kit
C♯ 1	13	C♯ -1		3	Surdo Mute	Surdo Mute	Surdo Mute	Surdo Mute	Surdo Mute	Surdo Mute
D 1	14	D -1		3	Surdo Open	Surdo Open	Surdo Open	Surdo Open	Surdo Open	Surdo Open
D♯ 1	15	D♯ -1			Hi Q	Hi Q	Hi Q	Hi Q	Hi Q	Hi Q
E 1	16	E -1			Whip Slap	Whip Slap	Whip Slap	Whip Slap	Whip Slap	Whip Slap
F 1	17	F -1		4	Scratch H	Scratch H	Scratch H	Scratch H	Scratch H	Scratch H
F♯ 1	18	F♯ -1		4	Scratch L	Scratch L	Scratch L	Scratch L	Scratch L	Scratch L
G 1	19	G -1			Finger Snap	Finger Snap	Finger Snap	Finger Snap	Finger Snap	Finger Snap
G♯ 1	20	G♯ -1			Click Noise	Click Noise	Click Noise	Click Noise	Click Noise	Click Noise
A 1	21	A -1			Mtrnm Click	Mtrnm Click	Mtrnm Click	Mtrnm Click	Mtrnm Click	Mtrnm Click
A♯ 1	22	A♯ -1			Mtrnm Bell	Mtrnm Bell	Mtrnm Bell	Mtrnm Bell	Mtrnm Bell	Mtrnm Bell
B 1	23	B -1			Seq Click L	Seq Click L	Seq Click L	Seq Click L	Seq Click L	Seq Click L
C 2	24	C 0			Seq Click H	Seq Click H	Seq Click H	Seq Click H	Seq Click H	Seq Click H
C♯ 2	25	C♯ 0			Brush Tap	Brush Tap	Brush Tap	Brush Tap	Brush Tap	Brush Tap
D 2	26	D 0	○		Brush Swirl	Brush Swirl	Brush Swirl	Brush Swirl	Brush Swirl	Brush Swirl
D♯ 2	27	D♯ 0			Brush Slap	Brush Slap	Brush Slap	Brush Slap	Brush Slap	Brush Slap
E 2	28	E 0	○		BrushTapSwrl	BrushTapSwrl	BrushTapSwrl	BrushTapSwrl	ReversCymbal	ReversCymbal
F 2	29	F 0	○		Snare Roll	Snare Roll 2	Snare Roll	Snare Roll	Snare Roll	Snare Roll
F♯ 2	30	F♯ 0			Castanet	Castanet	Castanet	Castanet	Hi Q 2	Hi Q 2
G 2	31	G 0			Snare Soft	Snare Soft 2	Snare Soft	Snare Noisy	SnrSnpyElctr	SnareNoisy 4
G♯ 2	32	G♯ 0			Sticks	Sticks	Sticks	Sticks	Sticks	Sticks
A 2	33	A 0			Kick Soft	Kick Soft	Kick Soft	Kick Tight 2	Kick 3	Kick Tight 2
A♯ 2	34	A♯ 0			OpenRimShot	RimShotHShrt	OpenRimShot	OpenRimShot	OpenRimShot	OpenRimShot
B 2	35	B 0			Kick Tight	KickTghtShrt	Kick Tight	Kick 2	Kick Gate	KickAnlgShrt
C 3	36	C 1			Kick	Kick Short	Kick	Kick Gate	KckGateHeavy	Kick Analog
C♯ 3	37	C♯ 1			Side Stick	Side Stick	Side Stick	Side Stick	Side Stick	SideStickAn
D 3	38	D 1			Snare	Snare Short	Snare Snappy	Snare Rock	SnareNoisy 2	SnareAnalog
D♯ 3	39	D♯ 1			Hand Clap	Hand Clap	Hand Clap	Hand Clap	Hand Clap	Hand Clap
E 3	40	E 1			Snare Tight	SnareTight H	SnrTightSnpy	SnareRockRim	SnareNoisy 3	SnareAnalog2
F 3	41	F 1			Floor Tom L	Floor Tom L	Tom Room 1	Tom Rock 1	TomElectro 1	Tom Analog 1
F♯ 3	42	F♯ 1		1	Hi-HatClosed	Hi-HatClosed	Hi-HatClosed	Hi-HatClosed	Hi-HatClosed	HatCloseAnlg
G 3	43	G 1			Floor Tom H	Floor Tom H	Tom Room 2	Tom Rock 2	TomElectro 2	Tom Analog 2
G♯ 3	44	G♯ 1		1	Hi-Hat Pedal	Hi-Hat Pedal	Hi-Hat Pedal	Hi-Hat Pedal	Hi-Hat Pedal	HatCloseAn 2
A 3	45	A 1			Low Tom	Low Tom	Tom Room 3	Tom Rock 3	TomElectro 3	Tom Analog 3
A♯ 3	46	A♯ 1		1	Hi-Hat Open	Hi-Hat Open	Hi-Hat Open	Hi-Hat Open	Hi-Hat Open	HatOpen Anlg
B 3	47	B 1			Mid Tom L	Mid Tom L	Tom Room 4	Tom Rock 4	TomElectro 4	Tom Analog 4
C 4	48	C 2			Mid Tom H	Mid Tom H	Tom Room 5	Tom Rock 5	TomElectro 5	Tom Analog 5
C♯ 4	49	C♯ 2			CrashCymbal1	CrashCymbal1	CrashCymbal1	CrashCymbal1	CrashCymbal1	Crash Analog
D 4	50	D 2			High Tom	High Tom	Tom Room 6	Tom Rock 6	TomElectro 6	Tom Analog 6
D♯ 4	51	D♯ 2			RideCymbal 1	RideCymbal 1	RideCymbal 1	RideCymbal 1	RideCymbal 1	RideCymbal 1
E 4	52	E 2			Chinese Cym	Chinese Cym	Chinese Cym	Chinese Cym	Chinese Cym	Chinese Cym
F 4	53	F 2			Ride Cym Cup	Ride Cym Cup	Ride Cym Cup	Ride Cym Cup	Ride Cym Cup	Ride Cym Cup
F♯ 4	54	F♯ 2			Tambourine	Tambourine	Tambourine	Tambourine	Tambourine	Tambourine
G 4	55	G 2			SplashCymbal	SplashCymbal	SplashCymbal	SplashCymbal	SplashCymbal	SplashCymbal
G♯ 4	56	G♯ 2			Cowbell	Cowbell	Cowbell	Cowbell	Cowbell	Cowbell Anlg
A 4	57	A 2			CrashCymbal2	CrashCymbal2	CrashCymbal2	CrashCymbal2	CrashCymbal2	CrashCymbal2
A♯ 4	58	A♯ 2			Vibraslap	Vibraslap	Vibraslap	Vibraslap	Vibraslap	Vibraslap
B 4	59	B 2			RideCymbal 2	RideCymbal 2	RideCymbal 2	RideCymbal 2	RideCymbal 2	RideCymbal 2
C 5	60	C 3			Bongo H	Bongo H	Bongo H	Bongo H	Bongo H	Bongo H
C♯ 5	61	C♯ 3			Bongo L	Bongo L	Bongo L	Bongo L	Bongo L	Bongo L
D 5	62	D 3			Conga H Mute	Conga H Mute	Conga H Mute	Conga H Mute	Conga H Mute	Conga Anlg H
D♯ 5	63	D♯ 3			Conga H Open	Conga H Open	Conga H Open	Conga H Open	Conga H Open	Conga Anlg M
E 5	64	E 3			Conga L	Conga L	Conga L	Conga L	Conga L	Conga Anlg L
F 5	65	F 3			Timbale H	Timbale H	Timbale H	Timbale H	Timbale H	Timbale H
F♯ 5	66	F♯ 3			Timbale L	Timbale L	Timbale L	Timbale L	Timbale L	Timbale L
G 5	67	G 3			Agogo H	Agogo H	Agogo H	Agogo H	Agogo H	Agogo H
G♯ 5	68	G♯ 3			Agogo L	Agogo L	Agogo L	Agogo L	Agogo L	Agogo L
A 5	69	A 3			Cabasa	Cabasa	Cabasa	Cabasa	Cabasa	Cabasa
A♯ 5	70	A♯ 3			Maracas	Maracas	Maracas	Maracas	Maracas	Maracas 2
B 5	71	B 3	○		SambaWhistlH	SambaWhistlH	SambaWhistlH	SambaWhistlH	SambaWhistlH	SambaWhistlH
C 6	72	C 4	○		SambaWhistlL	SambaWhistlL	SambaWhistlL	SambaWhistlL	SambaWhistlL	SambaWhistlL
C♯ 6	73	C♯ 4			Guiro Short	Guiro Short	Guiro Short	Guiro Short	Guiro Short	Guiro Short
D 6	74	D 4	○		Guiro Long	Guiro Long	Guiro Long	Guiro Long	Guiro Long	Guiro Long
D♯ 6	75	D♯ 4			Claves	Claves	Claves	Claves	Claves	Claves 2
E 6	76	E 4			Wood Block H	Wood Block H	Wood Block H	Wood Block H	Wood Block H	Wood Block H
F 6	77	F 4			Wood Block L	Wood Block L	Wood Block L	Wood Block L	Wood Block L	Wood Block L
F♯ 6	78	F♯ 4			Cuica Mute	Cuica Mute	Cuica Mute	Cuica Mute	Scratch H 2	Scratch H 2
G 6	79	G 4			Cuica Open	Cuica Open	Cuica Open	Cuica Open	Scratch L 2	Scratch L 3
G♯ 6	80	G♯ 4		2	TriangleMute	TriangleMute	TriangleMute	TriangleMute	TriangleMute	TriangleMute
A 6	81	A 4		2	TriangleOpen	TriangleOpen	TriangleOpen	TriangleOpen	TriangleOpen	TriangleOpen
A♯ 6	82	A♯ 4			Shaker	Shaker	Shaker	Shaker	Shaker	Shaker
B 6	83	B 4			Jingle Bells	Jingle Bells	Jingle Bells	Jingle Bells	Jingle Bells	Jingle Bells
C 7	84	C 5			Bell Tree	Bell Tree	Bell Tree	Bell Tree	Bell Tree	Bell Tree
–	85	C♯ 5								
–	86	D 5								
–	87	D♯ 5								
–	88	E 5								
–	89	F 5								
–	90	F♯ 5								
–	91	G 5								

- *Key Off: Keys marked "○" stop sounding the instant they are released.*
- *Alternate Assign: Playing any instrument within a numbered group will immediately stop the sound of any other instrument in the same group of the same number.*

- *Key Off: Durch "○" gekennzeichnete Klänge verstummen beim Loslassen der Taste.*
- *Alternate Assign: Mit derselben Nummer gekennzeichnete Klänge werden von demselben Instrument erzeugt und können daher nicht gleichzeitig produziert werden. Spielt einer dieser Klänge gerade, wird er beim Anschlagen einer anderen Taste mit derselben "Alternate Assign"-Nummer stummgeschaltet.*

Schlagzeugklänge / touche du clavier /

Bank Select MSB					127	127	127	127	126	126
Bank Select LSB					0	0	0	0	0	0
Program # (1-128)					28	33	41	49	1	2
Keyboard Note	MIDI Note #	MIDI Note	Key off	Alternate assign	Dance Kit	Jazz Kit	Brush Kit	Symphony Kit	SFX Kit 1	SFX Kit 2
C♯ 1	13	C♯ -1		3	Surdo Mute	Surdo Mute	Surdo Mute	Surdo Mute		
D 1	14	D -1		3	Surdo Open	Surdo Open	Surdo Open	Surdo Open		
D♯ 1	15	D♯ -1			Hi Q	Hi Q	Hi Q	Hi Q		
E 1	16	E -1			Whip Slap	Whip Slap	Whip Slap	Whip Slap		
F 1	17	F -1		4	Scratch H	Scratch H	Scratch H	Scratch H		
F♯ 1	18	F♯ -1		4	Scratch L	Scratch L	Scratch L	Scratch L		
G 1	19	G -1			Finger Snap	Finger Snap	Finger Snap	Finger Snap		
G♯ 1	20	G♯ -1			Click Noise	Click Noise	Click Noise	Click Noise		
A 1	21	A -1			Mtrnm Click	Mtrnm Click	Mtrnm Click	Mtrnm Click		
A♯ 1	22	A♯ -1			Mtrnm Bell	Mtrnm Bell	Mtrnm Bell	Mtrnm Bell		
B 1	23	B -1			Seq Click L	Seq Click L	Seq Click L	Seq Click L		
C 2	24	C 0			Seq Click H	Seq Click H	Seq Click H	Seq Click H		
C♯ 2	25	C♯ 0			Brush Tap	Brush Tap	Brush Tap	Brush Tap		
D 2	26	D 0	○		Brush Swirl	Brush Swirl	Brush Swirl	Brush Swirl		
D♯ 2	27	D♯ 0			Brush Slap	Brush Slap	Brush Slap	Brush Slap		
E 2	28	E 0	○		ReversCymbal	BrushTapSwrl	BrushTapSwrl	BrushTapSwrl		
F 2	29	F 0	○		Snare Roll	Snare Roll	Snare Roll	Snare Roll		
F♯ 2	30	F♯ 0			Hi Q 2	Castanet	Castanet	Castanet		
G 2	31	G 0			SnareTechno3	Snare Soft	Brush Slap 2	Brush Slap 2		
G♯ 2	32	G♯ 0			Sticks	Sticks	Sticks	Sticks		
A 2	33	A 0			KickTechno Q	Kick Soft	Kick Soft	Kick Soft 2		
A♯ 2	34	A♯ 0			Rim Gate	OpenRimShot	OpenRimShot	OpenRimShot		
B 2	35	B 0			KickTechno L	Kick Tight	Kick Tight	Gran Cassa		
C 3	36	C 1			KickTechno 2	Kick Jazz	Kick Small	GranCassa Mu	CuttingNoiz	Phone Call
C♯ 3	37	C♯ 1			SideStickAn	Side Stick	Side Stick	Side Stick	CuttingNoiz2	Door Squeak
D 3	38	D 1			Snare Clap	Snare	Brush Slap 3	Band Snare		Door Slam
D♯ 3	39	D♯ 1			Hand Clap	Hand Clap	Hand Clap	Hand Clap	String Slap	Scratch Cut
E 3	40	E 1			Snare Dry 2	Snare Tight	Brush Tap 2	Band Snare 2		Scratch H 3
F 3	41	F 1			Tom Analog 1	Tom Jazz 1	Tom Brush 1	Tom Jazz 1		Wind Chime
F♯ 3	42	F♯ 1		1	HiHatClose 3	Hi-HatClosed	Hi-HatClosed	Hi-HatClosed		Telephone 2
G 3	43	G 1			Tom Analog 2	Tom Jazz 2	Tom Brush 2	Tom Jazz 2		
G♯ 3	44	G♯ 1		1	HatCloseAn 2	Hi-Hat Pedal	Hi-Hat Pedal	Hi-Hat Pedal		
A 3	45	A 1			Tom Analog 3	Tom Jazz 3	Tom Brush 3	Tom Jazz 3		
A♯ 3	46	A♯ 1		1	HiHat Open 3	Hi-Hat Open	Hi-Hat Open	Hi-Hat Open		
B 3	47	B 1			Tom Analog 4	Tom Jazz 4	Tom Brush 4	Tom Jazz 4		
C 4	48	C 2			Tom Analog 5	Tom Jazz 5	Tom Brush 5	Tom Jazz 5		
C♯ 4	49	C♯ 2			Crash Analog	CrashCymbal1	CrashCymbal1	Hand Cymbal		
D 4	50	D 2			Tom Analog 6	Tom Jazz 6	Tom Brush 6	Tom Jazz 6		
D♯ 4	51	D♯ 2			RideCymbal 1	RideCymbal 1	RideCymbal 1	HandCymShort		
E 4	52	E 2			Chinese Cym	Chinese Cym	Chinese Cym	Chinese Cym	Fl.Key Click	Ignition
F 4	53	F 2			Ride Cym Cup	Ride Cym Cup	Ride Cym Cup	Ride Cym Cup		Squeal
F♯ 4	54	F♯ 2			Tambourine	Tambourine	Tambourine	Tambourine		Exhaust
G 4	55	G 2			SplashCymbal	SplashCymbal	SplashCymbal	SplashCymbal		Crash
G♯ 4	56	G♯ 2			Cowbell Anlg	Cowbell	Cowbell	Cowbell		Siren
A 4	57	A 2			CrashCymbal2	CrashCymbal2	CrashCymbal2	HandCymbal 2		Train
A♯ 4	58	A♯ 2			Vibraslap	Vibraslap	Vibraslap	Vibraslap		Jet Plane
B 4	59	B 2			RideCymbal 2	RideCymbal 2	RideCymbal 2	HandCym2Shrt		Starship
C 5	60	C 3			Bongo H	Bongo H	Bongo H	Bongo H		Burst
C♯ 5	61	C♯ 3			Bongo L	Bongo L	Bongo L	Bongo L		Coaster
D 5	62	D 3			Conga Anlg H	Conga H Mute	Conga H Mute	Conga H Mute		Submarine
D♯ 5	63	D♯ 3			Conga Anlg M	Conga H Open	Conga H Open	Conga H Open		
E 5	64	E 3			Conga Anlg L	Conga L	Conga L	Conga L		
F 5	65	F 3			Timbale H	Timbale H	Timbale H	Timbale H		
F♯ 5	66	F♯ 3			Timbale L	Timbale L	Timbale L	Timbale L		
G 5	67	G 3			Agogo H	Agogo H	Agogo H	Agogo H		
G♯ 5	68	G♯ 3			Agogo L	Agogo L	Agogo L	Agogo L	Shower	Laugh
A 5	69	A 3			Cabasa	Cabasa	Cabasa	Cabasa	Thunder	Scream
A♯ 5	70	A♯ 3			Maracas 2	Maracas	Maracas	Maracas	Wind	Punch
B 5	71	B 3	○		SambaWhistlH	SambaWhistlH	SambaWhistlH	SambaWhistlH	Stream	Heartbeat
C 6	72	C 4	○		SambaWhistlL	SambaWhistlL	SambaWhistlL	SambaWhistlL	Bubble	Footsteps
C♯ 6	73	C♯ 4			Guiro Short	Guiro Short	Guiro Short	Guiro Short	Feed	
D 6	74	D 4	○		Guiro Long	Guiro Long	Guiro Long	Guiro Long		
D♯ 6	75	D♯ 4			Claves 2	Claves	Claves	Claves		
E 6	76	E 4			Wood Block H	Wood Block H	Wood Block H	Wood Block H		
F 6	77	F 4			Wood Block L	Wood Block L	Wood Block L	Wood Block L		
F♯ 6	78	F♯ 4			Scratch H 2	Cuica Mute	Cuica Mute	Cuica Mute		
G 6	79	G 4			Scratch L 3	Cuica Open	Cuica Open	Cuica Open		
G♯ 6	80	G♯ 4		2	TriangleMute	TriangleMute	TriangleMute	TriangleMute		
A 6	81	A 4		2	TriangleOpen	TriangleOpen	TriangleOpen	TriangleOpen		
A♯ 6	82	A♯ 4			Shaker	Shaker	Shaker	Shaker		
B 6	83	B 4			Jingle Bells	Jingle Bells	Jingle Bells	Jingle Bells		
C 7	84	C 5			Bell Tree	Bell Tree	Bell Tree	Bell Tree	Dog	Machine Gun
–	85	C♯ 5							Horse	Laser Gun
–	86	D 5							Bird Tweet 2	Explosion
–	87	D♯ 5								Firework
–	88	E 5								
–	89	F 5								
–	90	F♯ 5							Ghost	
–	91	G 5							Maou	

- *Key off : Le son produit par les touches marquées “○” cesse à l'instant où la touche est relâchée.*
- *Alternate Assign : Le fait de jouer un instrument appartenant à un groupe ayant un numéro arrête immédiatement le son de tout autre instrument appartenant à un groupe ayant le même numéro.*
- *Key Off: Las teclas marcadas con “○” dejan de sonar en el momento en que se sueltan.*
- *Alternate Assign: Al tocar algún instrumento con un grupo numerado detendrá inmediatamente el sonido de cualquier otro instrumento del mismo grupo con el mismo número.*

Style List / Style-Verzeichnis / Liste des styles / Lista de estilos

Category	Style Name
8 BEAT	8 Beat 1
	8 Beat 2
	8Bt Adria
	8Bt Pop 1
	8Bt Pop 2
	British Pop
	8 Beat Soft
	8Beat Ballad
	Light Pop
16 BEAT	16 Beat 1
	16 Beat 2
	16 Beat 3
	16 Beat 4
	16 Beat 5
	Soft Fusion
	Hip Hop Pop
	16Bt Funk
	Funky Pop
	Funky Dance
	80's Fusion
	Jazz Rock
	16 Beat 6
BALLAD	16-Ballad 1
	16-Ballad 2
	Piano Ballad
	Rock Ballad
	U.S. Ballad
	Slow Rock 1
	Slow Rock 2
	Slow Ballad
	Modern 6/8
	Pop Ballad 1
	Pop Ballad 2
	Cool Night
	GuitarBallad
	Organ Ballad
	Pop Ballad 3
	Epic Ballad
	Pop Waltz

Category	Style Name
DANCE	Clubdance
	Techno
	Entrance
	Eurobeat
	70's Disco
	90's Disco
	Disco Soul
	Cool Dance
	Miami Pop
	Disco Tropic
	Disco Hands
ROCK/R&B	Rock
	Hard Rock
	R & Roll
	Rock Shuffle
	Gospel Shffl
	R & B 1
	Twist
	Motown
	4/4 Blues
	8 Beat Heat
	Soul Shuffle
	Pop Shuffle
	R & B 2
	6/8 Blues
	6/8 Rock
SWING/JAZZ	Swing
	Big Band 1
	BigBand Bld
	Jazz Ballad
	Jazz Trio
	Boogie
	Dixieland 1
	Bebop
	Big Band 2
	Dixieland 2
	Jazz Waltz 1
	Jazz Waltz 2

Category	Style Name
LATIN	Samba Rio
	Bossa Nova
	Swing Reggae
	GuitarRhumba
	Guitar Bossa
	Salsa
	Mambo
	Pop Bossa
	Spanish Paso
	Pop Reggae
COUNTRY	Country Rock
	Country 8Bt
	Country Pop
	CntryShuffle
	Cntry Swing
	Bluegrass
	Cntry Ballad
	Two Step
	Hoedown
	CountryWaltz
	Folk
BALLROOM	Vienna Waltz
	Slow Waltz
	Slow Fox
	Quickstep 1
	Tango
	Cha Cha
	Samba
	Rhumba
	Pasodoble
	Jive
	Orch.Waltz
	Beguine
	Foxtrot
	Quickstep 2

Category	Style Name
TRAD./ WALTZ	U.S. March
	German March
	6/8 March 1
	Showtune
	Polka Pop
	Ober Polka
	Oberkrain.W.
	Tarantella
	Musette
	Guitar Waltz
	6/8 March 2
	Enka 1
	Enka 2
PIANIST	Stride 1
	Stride 2
	Swing 1
	Swing 2
	Jazz Ballad
	Blues 1
	Blues 2
	BoogieWoogie
	Jazz Waltz
	Arpeggio 1
	8Bt Ballad 1
	8Bt Ballad 2
	8 Beat
	Rock'n' Roll
	Slow Rock
	2Beat Swing
	Ragtime 1
	Ragtime 2
	March 1
	6/8 March
	4 Stroke
	March 2
	Musical
	Traditional1
	Traditional2
	Traditional3
	Arpeggio 2
	Arpeggio 3
	Waltz
	Slow Waltz
	Bossa Nova
	Samba
	Rhumba
	Cha Cha
	Beguine

Parameter Chart / Parameterübersicht / Tableau des paramètres / Gráfica de parámetros

Group	Contents	Default	One Touch Setting	Music Database	Set Up Memory	Registration Freeze Group	All Set Up	Backup Group	Recall Group
VOICE	RIGHT1 VOICE	Grand Piano	○	○	○	VOICE SETTING	○	VOICE SETTING	VOICE SETTING
	RIGHT1 OCTAVE SHIFT	0	○	○	○	VOICE SETTING	○	VOICE SETTING	VOICE SETTING
	RIGHT1 PAN	Center	○	○	○	VOICE SETTING	○	VOICE SETTING	VOICE SETTING
	RIGHT1 VOLUME	127	○	○	○	VOICE SETTING	○	VOICE SETTING	VOICE SETTING
	Selected voice in each VOICE SELECT page	Top voice	—	—	—	—	○	VOICE SETTING	VOICE SETTING
	HARMONY ON/OFF	OFF	○	○	○	VOICE SETTING	○	VOICE SETTING	VOICE SETTING
	HARMONY TYPE	Depends on voice selection.	○	○	○	VOICE SETTING	○	VOICE SETTING	VOICE SETTING
	HARMONY VOLUME	Depends on voice selection.	○	○	○	VOICE SETTING	○	VOICE SETTING	VOICE SETTING
	HARMONY SPEED	Depends on voice selection.	○	○	○	VOICE SETTING	○	VOICE SETTING	VOICE SETTING
DUAL	DUAL ON/OFF	OFF	○	○	○	VOICE SETTING	○	VOICE SETTING	VOICE SETTING
	RIGHT2 VOICE	Strings Slow	○	○	○	VOICE SETTING	○	VOICE SETTING	VOICE SETTING
	RIGHT2 OCTAVE SHIFT	0	○	○	○	VOICE SETTING	○	VOICE SETTING	VOICE SETTING
	DUAL DETUNE DEPTH	5	○	○	○	VOICE SETTING	○	VOICE SETTING	VOICE SETTING
	RIGHT2 PAN	Center	○	○	○	VOICE SETTING	○	VOICE SETTING	VOICE SETTING
	RIGHT2 VOLUME	127	○	○	○	VOICE SETTING	○	VOICE SETTING	VOICE SETTING
SPLIT	SPLIT ON/OFF	OFF	—	○	○	VOICE SETTING	○	VOICE SETTING	VOICE SETTING
	LEFT VOICE	Acous.Bass 1	—	○	○	VOICE SETTING	○	VOICE SETTING	VOICE SETTING
	LEFT OCTAVE SHIFT	+1	—	○	○	VOICE SETTING	○	VOICE SETTING	VOICE SETTING
	SPLIT POINT	F#2	—	—	○	VOICE SETTING	○	VOICE SETTING	VOICE SETTING
	LEFT PAN	Center	—	○	○	VOICE SETTING	○	VOICE SETTING	VOICE SETTING
	LEFT VOLUME	127	—	○	○	VOICE SETTING	○	VOICE SETTING	VOICE SETTING
	PEDAL RANGE	RIGHT	—	—	○	PEDAL	○	PEDAL	PEDAL
REVERB	REVERB ON/OFF	Depends on voice selection.	○	○	○	REV/CHO/EFF	○	REV/CHO/EFF	REV/CHO/EFF
	REVERB TYPE	Depends on style (voice) selection.	—	○	○	REV/CHO/EFF	○	REV/CHO/EFF	REV/CHO/EFF
	REVERB TOTAL DEPTH	64	—	○	○	REV/CHO/EFF	○	REV/CHO/EFF	REV/CHO/EFF
	REVERB PART DEPTH (RHYTHM, ACMP)	64	—	○	○	REV/CHO/EFF	○	REV/CHO/EFF	REV/CHO/EFF
	REVERB PART DEPTH (LEFT, RIGHT1, RIGHT2)	Depends on voice selection.	○	○	○	REV/CHO/EFF	○	REV/CHO/EFF	REV/CHO/EFF
EFFECT	EFFECT ON/OFF	Depends on voice selection.	○	○	○	REV/CHO/EFF	○	REV/CHO/EFF	REV/CHO/EFF
	EFFECT TYPE (RIGHT1, RIGHT2, LEFT)	Depends on voice selection.	○	○	○	REV/CHO/EFF	○	REV/CHO/EFF	REV/CHO/EFF
	EFFECT DEPTH	Depends on voice selection.	○	○	○	REV/CHO/EFF	○	REV/CHO/EFF	REV/CHO/EFF
	EFFECT VARIATION	Depends on voice selection.	○	○	○	REV/CHO/EFF	○	REV/CHO/EFF	REV/CHO/EFF
CHORUS	CHORUS TYPE	Depends on style selection.	—	○	○	REV/CHO/EFF	○	REV/CHO/EFF	REV/CHO/EFF
	CHORUS DEPTH (RIGHT1, RIGHT2, LEFT)	Depends on voice selection.	○	○	○	REV/CHO/EFF	○	REV/CHO/EFF	REV/CHO/EFF
REGISTRATION	REGISTRATION FREEZE ON/OFF	OFF	—	—	—	—	—	REGISTRATION	REGISTRATION
	FREEZE CATEGORY ON/OFF (VOICE SETTING), REVERB/EFFECT, TUNE, PEDAL, ACMP.SETTING	ACMP. SETTING: ON Others: OFF	—	—	—	—	—	REGISTRATION	REGISTRATION
	ALL REGISTRATION Memory Data (20)	Factory preset data	—	—	—	—	○	REGISTRATION	REGISTRATION
MIXER	MIXER PART VOLUME (RHYTHM, BASS, CHORD, PAD, PHRASE)	110	—	○	—	ACMP. SETTING	○	ACMP SETTING	ACMP SETTING
	KEYBOARD VOLUME	127	—	○	○	VOICE SETTING	○	VOICE SETTING	VOICE SETTING
ACCOMPANIMENT	STYLE	8 Beat 1	—	○	—	ACMP. SETTING	○	ACMP SETTING	ACMP SETTING
	Selected style in each STYLE SELECT page	Top style	—	—	—	—	○	ACMP SETTING	ACMP SETTING
	MAIN A/B/C/D	MAIN C	—	○	—	ACMP. SETTING	○	ACMP SETTING	ACMP SETTING
	ACMP. ON/OFF	OFF	ON	ON	—	ACMP. SETTING	○	ACMP SETTING	ACMP SETTING
	ACCOMPANIMENT MODE	MULTI FINGER	—	—	—	ACMP. SETTING	○	ACMP SETTING	ACMP SETTING
	TEMPO[1]	Depends on style selection.	—	○	—	ACMP. SETTING	○	ACMP SETTING	ACMP SETTING
	INTRO/FILL IN/ENDING	OFF	—	—	—	ACMP. SETTING	○	—	—
METRONOME	METRONOME TYPE	NORMAL	—	—	—	—	○	ACMP SETTING	ACMP SETTING
	METRONOME VOLUME	64	—	—	—	—	○	ACMP SETTING	ACMP SETTING
SONG	GUIDE MODE	NORMAL	—	—	—	—	—	—	—
	SOUND REPEAT	AUTO	—	—	—	—	○	SONG SETTING	SONG SETTING
	PIANO ROLL DISPLAY	AUTO	—	—	—	—	○	SONG SETTING	SONG SETTING
	GUIDE LAMP ON/OFF	ON	—	—	—	—	○	SONG SETTING	SONG SETTING
	LYRICS ON/OFF	ON	—	—	—	—	○	SONG SETTING	SONG SETTING
	SONG VOLUME	[ACMP/SONG VOLUME] slider value	—	—	—	—	—	SONG SETTING	—
HELP	LANGUAGE	ENGLISH	—	—	—	—	○	Always backed up.	—
FUNCTION	TUNE	440.0Hz (A3)	—	—	—	—	○	TUNE	TUNE
	TRANSPOSE (ALL)	0	—	—	—	VOICE SETTING	○	VOICE SETTING	VOICE SETTING
	TRANSPOSE (SONG)	0	—	—	—	—	○	VOICE SETTING	VOICE SETTING
	VOICE SETTING	AUTO	—	—	—	—	○	VOICE SETTING	VOICE SETTING
	KEY TOUCH	NORMAL	—	—	—	VOICE SETTING	○	VOICE SETTING	VOICE SETTING
	FIXED VELOCITY	76	—	—	—	VOICE SETTING	○	VOICE SETTING	VOICE SETTING
	LEFT PEDAL FUNCTION	SOFT	—	○	○	PEDAL	○	PEDAL	PEDAL
	LEFT PART MIDI SEND Ch.	3	—	—	—	—	○	MIDI SETTING	MIDI SETTING
	RIGHT 1 PART MIDI SEND Ch.	1	—	—	—	—	○	MIDI SETTING	MIDI SETTING
	RIGHT 2 PART MIDI SEND Ch.	2	—	—	—	—	○	MIDI SETTING	MIDI SETTING
	LOCAL CONTROL ON/OFF	ON	—	—	—	—	○	MIDI SETTING	MIDI SETTING
	SYNC. CLOCK	INT.	—	—	—	—	○	MIDI SETTING	MIDI SETTING
	PROGRAM CHANGE SEND/RECEIVE ON/OFF	TX&RX (ON)	—	—	—	—	○	MIDI SETTING	MIDI SETTING
	CONTROL CHANGE SEND/RECEIVE ON/OFF	TX&RX (ON)	—	—	—	—	○	MIDI SETTING	MIDI SETTING
	SYSTEM EXCLUSIVE SEND/RECEIVE ON/OFF	TX&RX (ON)	—	—	—	—	○	MIDI SETTING	MIDI SETTING
	START/STOP SEND/RECEIVE ON/OFF	OFF	—	—	—	—	○	MIDI SETTING	MIDI SETTING
	MIDI FILTER ON/OFF (all channels)	ON	—	—	—	—	○	MIDI SETTING	MIDI SETTING
	MIDI TRANSPOSE RECEIVE ON/OFF	ON	—	—	—	—	○	MIDI SETTING	MIDI SETTING
	ACMP & RHY SEND ON/OFF	OFF	—	—	—	—	○	MIDI SETTING	MIDI SETTING
	HARMONY SEND ON/OFF	OFF	—	—	—	—	○	MIDI SETTING	MIDI SETTING
	SEQUENCER SEND ON/OFF	OFF	—	—	—	—	○	MIDI SETTING	MIDI SETTING
	REMOTE KEYBOARD	OFF	—	—	—	—	○	MIDI SETTING	MIDI SETTING
	MICRO TUNING ON/OFF	OFF	—	—	—	—	○	TUNE	TUNE
	MICRO TUNE. SETTING	0	—	—	—	—	○	TUNE	TUNE
	SCALE TUNING SELECT	PRESET	—	—	—	TUNE	○	TUNE	TUNE
	PRESET SCALE SELECT	EQUAL	—	—	—	TUNE	○	TUNE	TUNE
	PRESET SCALE KEY	C	—	—	—	TUNE	○	TUNE	TUNE
	USER SCALE SETTING	0	—	—	—	TUNE	○	TUNE	TUNE
	BACKUP ON/OFF	Set separately for each group.[2]						Always backed up.	

1 When a Music Database setup or registration is recalled during Auto Accompaniment playback, the style thereby selected will begin playing immediately if it is the same as the style that is currently playing, or from the top of the next measure if it is a different style.
2 REGISTRATION: ON; Others: OFF

1 Si une configuration de Music Database ou une registration est rappelée au cours de l'accompagnement automatique, le style ainsi sélectionné sera joué immédiatement s'il est identique au style en cours de lecture, ou au début de la mesure suivante s'il s'agit d'un style différent.
2 REGISTRATION : ON ; Autres : OFF

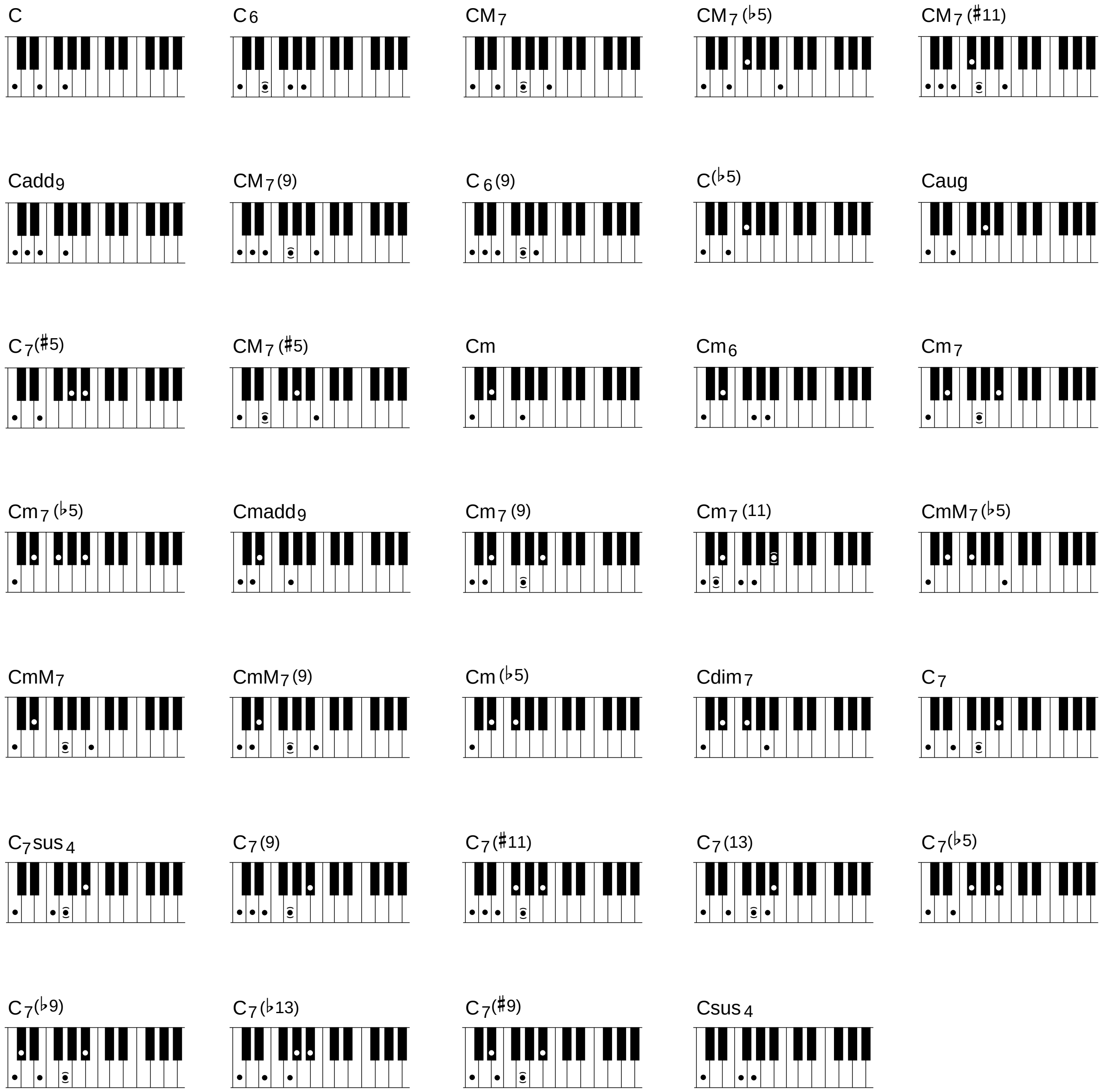
1 Bei Wiederaufruf eines Musikdatenbank-Setup oder einer Registrierung während des Auto Accompaniment-Backup (Backup von Autom. Begleitung) wird der dabei gewählte Style sofort abgespielt, sofern dieser derselbe ist wie der aktuell abgespielte Style, oder ab der obersten Stelle des nächsten Taktes, falls es sich um einen anderen Style handelt.
2 REGISTRATION: ON; Andere: OFF

1 Cuando un registro o los ajustes Music Database están llamados durante una reproducción Auto Accompaniment, el estilo seleccionado reproducirá inmediatamente si es el mismo que el estilo que se está reproduciendo o desde el principio del compás siguiente si es un estilo diferente.
2 REGISTRATION: ON; Otros: OFF

Fingering Chart / Akkordliste / Tablature / Gráfica de digitado

** All fingerings shown are simple root-position types.*
** Die hier gezeigten Akkorde sind jeweils die Grundakkorde.*
** Tous les doigtés indiqués sont du type à position fondamentale simple.*
** Todos los digitados se muestran como tipos de posición de raíz sencilla.*

Example for "C" chords
Beispiele für "C"-Akkorde
Exemples d'accords en "C"
Ejemplo de acordes "C"



MIDI Data Format / MIDI-Datenformat / Format des données MIDI / Formato de datos MIDI

Many MIDI messages listed in the MIDI Data Format are expressed in decimal numbers, binary numbers and hexadecimal numbers. Hexadecimal numbers may include the letter "H" as a suffix. Also, "n" can freely be defined as any whole number.
To enter data/values, refer to the table below.

Decimal	Hexadecimal	Binary	Decimal	Hexadecimal	Binary
0	00	0000 0000	64	40	0100 0000
1	01	0000 0001	65	41	0100 0001
2	02	0000 0010	66	42	0100 0010
3	03	0000 0011	67	43	0100 0011
4	04	0000 0100	68	44	0100 0100
5	05	0000 0101	69	45	0100 0101
6	06	0000 0110	70	46	0100 0110
7	07	0000 0111	71	47	0100 0111
8	08	0000 1000	72	48	0100 1000
9	09	0000 1001	73	49	0100 1001
10	0A	0000 1010	74	4A	0100 1010
11	0B	0000 1011	75	4B	0100 1011
12	0C	0000 1100	76	4C	0100 1100
13	0D	0000 1101	77	4D	0100 1101
14	0E	0000 1110	78	4E	0100 1110
15	0F	0000 1111	79	4F	0100 1111
16	10	0001 0000	80	50	0101 0000
17	11	0001 0001	81	51	0101 0001
18	12	0001 0010	82	52	0101 0010
19	13	0001 0011	83	53	0101 0011
20	14	0001 0100	84	54	0101 0100
21	15	0001 0101	85	55	0101 0101
22	16	0001 0110	86	56	0101 0110
23	17	0001 0111	87	57	0101 0111
24	18	0001 1000	88	58	0101 1000
25	19	0001 1001	89	59	0101 1001
26	1A	0001 1010	90	5A	0101 1010
27	1B	0001 1011	91	5B	0101 1011
28	1C	0001 1100	92	5C	0101 1100
29	1D	0001 1101	93	5D	0101 1101
30	1E	0001 1110	94	5E	0101 1110
31	1F	0001 1111	95	5F	0101 1111
32	20	0010 0000	96	60	0110 0000
33	21	0010 0001	97	61	0110 0001
34	22	0010 0010	98	62	0110 0010
35	23	0010 0011	99	63	0110 0011
36	24	0010 0100	100	64	0110 0100
37	25	0010 0101	101	65	0110 0101
38	26	0010 0110	102	66	0110 0110
39	27	0010 0111	103	67	0110 0111
40	28	0010 1000	104	68	0110 1000
41	29	0010 1001	105	69	0110 1001
42	2A	0010 1010	106	6A	0110 1010
43	2B	0010 1011	107	6B	0110 1011
44	2C	0010 1100	108	6C	0110 1100
45	2D	0010 1101	109	6D	0110 1101
46	2E	0010 1110	110	6E	0110 1110
47	2F	0010 1111	111	6F	0110 1111
48	30	0011 0000	112	70	0111 0000
49	31	0011 0001	113	71	0111 0001
50	32	0011 0010	114	72	0111 0010
51	33	0011 0011	115	73	0111 0011
52	34	0011 0100	116	74	0111 0100
53	35	0011 0101	117	75	0111 0101
54	36	0011 0110	118	76	0111 0110
55	37	0011 0111	119	77	0111 0111
56	38	0011 1000	120	78	0111 1000
57	39	0011 1001	121	79	0111 1001
58	3A	0011 1010	122	7A	0111 1010
59	3B	0011 1011	123	7B	0111 1011
60	3C	0011 1100	124	7C	0111 1100
61	3D	0011 1101	125	7D	0111 1101
62	3E	0011 1110	126	7E	0111 1110
63	3F	0011 1111	127	7F	0111 1111

- Except the table above, for example 144-159(decimal)/9nH/1001 0000-1001 1111(binary) displays the Note On Message for each channel (1-16). 176-191/BnH/1011 0000-1011 1111 displays the Control Change Message for each channel (1-16). 192-207/CnH/1100 0000-1100 1111 displays the Program Change Message for each channel (1-16). 240/F0H/1111 0000 denotes the start of a System Exclusive Message. 247/F7H/1111 0111 denotes the end of a System Exclusive Message.
- aaH (hexidecimal)/0aaaaaaa (binary) denotes the data address. The address contains High, Mid, and Low.
- bbH/0bbbbbbb denotes the byte count.
- ccH/0ccccccc denotes the check sum.
- ddH/0ddddddd denotes the data/value.

(1) TRANSMIT FLOW

```
MIDI←──┬──┬─ KEY OFF                 8nH
OUT    │  ├─ KEY ON/OFF              9nH
       │  │
       │  │  CONTROL CHANGE          BnH
       │  │  BANK SELECT MSB         BnH,00H
       │  │    BANK SELECT LSB       BnH,20H
       │  │    DATA ENTRY MSB        BnH,06H
       │  │    DATA ENTRY LSB        BnH,26H
       │  │    MAIN VOLUME           BnH,07H
       │  │    PANPOT                BnH,0AH
       │  │    EXPRESSION            BnH,0BH
       │  │    SUSTAIN               BnH,40H
       │  │    SOSTENUTE             BnH,42H
       │  │    SOFT PEDAL            BnH,43H
       │  │    PORTAMENTO CONTROL    BnH,54H
       │  │    REVERB SEND LEVEL     BnH,5BH
       │  │    CHORUS SEND LEVEL     BnH,5DH
       │  │    VARIATION SEND LEVEL  BnH,5EH
       │  │    RPN LSB               BnH,64H
       │  │    RPN MSB               BnH,65H
       │  │    PITCH BEND SENS.      BnH,65H,00H,64H,00H,06H,mmH
       │  │
       │  └─ PROGRAM CHANGE          CnH
       │
       ├──┬─ SYSTEM EXCLUSIVE MESSAGE
       │  │    <YAMAHA MIDI FORMAT>
       │  │    <UNIVERSAL>
       │  ├─ UNIVERSAL NON-REALTIME  F0H 7EH.....F7H
       │  │    <XG STANDARD>
       │  ├─ XG PARAMETER CHANGE     F0H 43H 1nH 4CH aaH aaH aaH ddH
       │  │                                                  .....ddH F7H
       │  └─ XG BULK DUMP            F0H 43H 0nH 4CH bbH bbH aaH aaH
       │                                          aaH ddH.....ddH ccH F7H
       │       <CLAVINOVA MIDI COMPLIANCE>
       │       <SPECIAL OPERATORS>
       │
       └──── SYSTEM REALTIME MESSAGE
               MIDI CLOCK            F8H
               START                 FAH
               STOP                  FCH
               ACTIVE SENSING        FEH
```

(2) RECEIVE FLOW

```
MIDI ──┬──┬→KEY OFF                  8nH
IN     │  │
       │  ├─ KEY ON/OFF              9nH
       │  │
       │  ├─ CONTROL CHANGE
       │  │    BANK SELECT MSB       BnH,00H
       │  │    BANK SELECT LSB       BnH,20H
       │  │    MODULATION            BnH,01H
       │  │    PORTAMENTO TIME       BnH,05H
       │  │    DATA ENTRY MSB        BnH,06H
       │  │    DATA ENTRY LSB        BnH,26H
       │  │    MAIN VOLUME           BnH,07H
       │  │    PANPOT                BnH,0AH
       │  │    EXPRESSION            BnH,0BH
       │  │    SUSTAIN               BnH,40H
       │  │    PORTAMENTO            BnH,41H
       │  │    SOSTENUTO             BnH,42H
       │  │    SOFT PEDAL            BnH,43H
       │  │    HARMONIC CONTENT      BnH,47H
       │  │    RELEASE TIME          BnH,48H
       │  │    ATTACK TIME           BnH,49H
       │  │    BRIGHTNESS            BnH,4AH
       │  │    PORTAMENTO CONTROL    BnH,54H
       │  │    REVERB SEND LEVEL     BnH,5BH
       │  │    CHORUS SEND LEVEL     BnH,5DH
       │  │    VARIATION SEND LEVEL  BnH,5EH
       │  │    DATA INCREMENT        BnH,60H
       │  │    DATA DECREMENT        BnH,61H
       │  │    NRPN LSB              BnH,62H
       │  │    NRPN MSB              BnH,63H
       │  │      VIBRATO RATE        BnH,63H,01H,62H,08H,06H,mmH
       │  │      VIBRATO DEPTH       BnH,63H,01H,62H,09H,06H,mmH
       │  │      VIBRATO DELAY       BnH,63H,01H,62H,0AH,06H,mmH
       │  │      FILTER CUTOFF FREQ. BnH,63H,01H,62H,20H,06H,mmH
       │  │      FILTER RESONANCE    BnH,63H,01H,62H,21H,06H,mmH
       │  │      EG ATTACK TIME      BnH,63H,01H,62H,63H,06H,mmH
       │  │      EG DECAY TIME       BnH,63H,01H,62H,64H,06H,mmH
       │  │      EG RELEASE          BnH,63H,01H,62H,66H,06H,mmH
       │  │      DRUM INST                                          *1
       │  │        CUTOFF FREQ.      BnH,63H,14H,62H,rrH,06H,mmH
       │  │        FILTER RESONANCE  BnH,63H,15H,62H,rrH,06H,mmH
       │  │        EG ATTACK RATE    BnH,63H,16H,62H,rrH,06H,mmH
       │  │        EG DECAY RATE     BnH,63H,17H,62H,rrH,06H,mmH
       │  │        PITCH COARSE      BnH,63H,18H,62H,rrH,06H,mmH
```

```
          PITCH FINE          BnH,63H,19H,62H,rrH,06H,mmH
          LEVEL               BnH,63H,1AH,62H,rrH,06H,mmH
          PANPOT              BnH,63H,1CH,62H,rrH,06H,mmH
          REVERB SEND         BnH,63H,1DH,62H,rrH,06H,mmH
          CHORUS SEND         BnH,63H,1EH,62H,rrH,06H,mmH
          VARIATION SEND      BnH,63H,1FH,62H,rrH,06H,mmH
        RPN LSB               BnH,64H
        RPN MSB               BnH,65H
          PITCH BEND SENS.    BnH,65H,00H,64H,00H,06H,mmH
          FINE TUNING         BnH,65H,00H,64H,01H,06H,mmH,
                                                   26H,llH
          COARSE TUNING       BnH,65H,00H,64H,02H,06H,mmH
          NULL                BnH,65H,7FH,64H,7FH
        ALL SOUND OFF         BnH,78H,00H
        RESET ALL CONTROLLERS BnH,79H,00H
        ALL NOTES OFF         BnH,7BH,00H
        OMNI OFF              BnH,7CH,00H
        OMNI ON               BnH,7DH,00H
        MONO                  BnH,7EH
        POLY                  BnH,7FH

      PROGRAM CHANGE          CnH

      CHANNEL AFTER TOUCH     DnH

      PITCH BEND CHANGE       EnH

      SYSTEM EXCLUSIVE MESSAGE
        <YAMAHA MIDI FORMAT>
        <UNIVERSAL>
      UNIVERSAL REALTIME      F0H 7FH.....F7H
      UNIVERSAL NON-REALTIME  F0H 7EH.....F7H
        <XG STANDARD>
      XG PARAMETER CHANGE     F0H 43H 1nH 4CH aaH aaH aaH ddH
                                                 .....ddH F7H
      XG BULK DUMP            F0H 43H 0nH 4CH bbH bbH aaH aaH
                                          aaH ddH.....ddH ccH F7H
      PARAMETER REQUEST       F0H 43H 3nH 4CH aaH aaH aaH F7H
      DUMP REQUEST            F0H 43H 2nH 4CH aaH aaH aaH F7H
        <CLAVINOVA MIDI COMPLIANCE>
        <SPETIAL OPERATORS>
        <Others>

      SYSTEM REALTIME MESSAGE
        MIDI CLOCK            F8H
        START                 FAH
        STOP                  FCH
        ACTIVE SENSING        FEH
```

(3) TRANSMIT/RECEIVE DATA

(3-1) CHANNEL VOICE MESSAGES

(3-1-1) KEY OFF

```
STATUS          1000nnnn(8nH) n = 0 - 15 VOICE CHANNEL NUMBER
NOTE NUMBER     0kkkkkkk      k = 0 (C-2) - 127 (G8)
VELOCITY        0vvvvvvv      v: ignored
```

(3-1-2) KEY ON/OFF

```
STATUS          1001nnnn(9nH) n = 0 - 15 VOICE CHANNEL NUMBER
NOTE NUMBER     0kkkkkkk      k = 0 (C-2) - 127 (G8)
VELOCITY        0vvvvvvv      (v ≠0) NOTE ON
                00000000      (v =0) NOTE OFF
```

(3-1-3) PROGRAM CHANGE

```
STATUS          1100nnnn(CnH) n = 0 - 15 VOICE CHANNEL NUMBER
PROGRAM NUMBER  0ppppppp      p = 0 - 127
```

*** PROGRAM NUMBER: XG DRUM VOICE number correspondence**

```
P = 0     Standard Kit
P = 1     Standard2 Kit
P = 8     Room Kit
P = 16    Rock Kit
P = 24    Electro Kit
P = 25    Analog Kit
P = 27    Dance Kit
P = 32    Jazz Kit
P = 40    Brush Kit
P = 48    Classic Kit
```

*** PROGRAM NUMBER: XG SFX KIT number correspondence**

```
P = 0     SFX1 Kit
P = 1     SFX2 Kit
```

When DRUM VOICE is selected and program change data for a different DRUM VOICE is received, the currently selected Drum Setup data will be replaced with the new DRUM VOICE DATA.

(3-1-4) CHANNEL AFTER TOUCH (Receive only)

```
STATUS          1101nnnn(DnH) n = 0 - 15 VOICE CHANNEL NUMBER
VALUE           0vvvvvvv      v = 0 - 127 AFTER TOUCH VALUE
```

(3-1-5) PITCH BEND CHANGE

```
STATUS          1110nnnn(EnH) n = 0 - 15 VOICE CHANNEL NUMBER
LSB             0vvvvvvv      PITCH BEND CHANGE LSB
MSB             0vvvvvvv      PITCH BEND CHANGE MSB
```

(3-1-6) CONTROL CHANGE

```
STATUS          1011nnnn(BnH) n = 0 - 15 VOICE CHANNEL NUMBER
CONTROL NUMBER  0ccccccc
CONTROL VALUE   0vvvvvvv
```

*** Transmit CONTROL NUMBER.**

```
c = 0      BANK SELECT MSB      ; v = 0:XG NORMAL,
                                      64:SFX NORMAL,
                                      126:XG SFX KIT,
                                      127:XG DRUM
c = 32     BANK SELECT LSB      ; v = 0 - 127
c =  6     DATA ENTRY MSB       ; v = 0 - 127              *1
c = 38     DATA ENTRY LSB       ; v = 0 - 127              *1
c =  7     MAIN VOLUME          ; v = 0 - 127
c = 10     PANPOT ; v = 0 - 127
c = 11     EXPRESSION           ; v = 0 - 127
c = 64     SUSTAIN              ; v = 0-63:OFF , 64-127:ON *2
c = 66     SOSTENUTO            ; v = 0-63:OFF , 64-127:ON *2
c = 67     SOFT PEDAL           ; v = 0-63:OFF , 64-127:ON *2
c = 84     PORTAMENTO CONTROL   ; v = 0 - 127
c = 91     REVERB SEND LEVEL    ; v = 0 - 127
c = 93     CHORUS SEND LEVEL    ; v = 0 - 127
c = 94     VARIATION SEND LEVEL ; v = 0 - 127
                                  (When only Connection = 1[System])
c = 100    RPN LSB              ; v = 0 - 127
c = 101    RPN MSB              ; v = 0 - 127
```

*** Receive CONTROL NUMBER.**

```
c =  0     BANK SELECT MSB      ; v = 0:XG NORMAL,
                                      64:SFX NORMAL,
                                      126:XG SFX KIT,
                                      127:XG DRUM
c = 32     BANK SELECT LSB      ; v = 0 - 127
c =  1     MODULATION           ; v = 0 - 127              *2
c =  5     PORTAMENTO TIME      ; v = 0 - 127              *2
c =  6     DATA ENTRY MSB       ; v = 0 - 127              *1
c = 38     DATA ENTRY LSB       ; v = 0 - 127              *1
c =  7     MAIN VOLUME          ; v = 0 - 127
c = 10     PANPOT ; v = 0 - 127
c = 11     EXPRESSION           ; v = 0 - 127
c = 64     SUSTAIN              ; v = 0-63:OFF , 64-127:ON *2
c = 65     PORTAMENTO           ; v = 0-63:OFF , 64-127:ON *2
c = 66     SOSTENUTO            ; v = 0-63:OFF , 64-127:ON *2
c = 67     SOFT PEDAL           ; v = 0-63:OFF , 64-127:ON *2
c = 71     HARMONIC CONTENT     ; v = 0:-64 - 64:0 - 127:+63 *2
c = 72     RELEASE TIME         ; v = 0:-64 - 64:0 - 127:+63 *2
c = 73     ATTACK TIME          ; v = 0:-64 - 64:0 - 127:+63 *2
c = 74     BRIGHTNESS           ; v = 0:-64 - 64:0 - 127:+63 *2
c = 84     PORTAMENT CONTROL    ; v = 0 - 127              *2
c = 91     REVERB SEND LEVEL    ; v = 0 - 127
c = 93     CHORUS SEND LEVEL    ; v = 0 - 127
c = 94     VARIATION SEND LEVEL ; v = 0 - 127
                                  (When only Connection = 1[System])
c = 96     DATA INCREMENT       ; v = 0 - 127              *1
c = 97     DATA DECREMENT       ; v = 0 - 127              *1
           RPN MSB/LSB, NRPN MSB/LSB
```

*1 Only when setting the appointed parameter with RPN, NRPN.
*2 Does not effect Rhythm Voice.

- Until a PROGRAM CHANGE message is received, the BANK SELECT operation will be suspended. When a Voice, including VOICE BANK, is changed, set the BANK SELECT and Program Change Message, and transmit in the following order, BANK SELECT MSB, LSB, PROGRAM CHANGE.
- MODULATION controls the Vibrato Depth.
- PORTAMENTO TIME controls the Pitch Change Speed when the Portamento Switch = ON. 0 being the shortest time, and 127 being the longest.
- PANPOT changes the value for the melody voice and rhythm voice in relation to the preset value.

- Portamento time is fixed to 0 when the PORTAMENTO CONTROL is used.
- HARMONIC CONTENT applies adjustment to the resonance value that is set by the voice. This parameter specifies relative change with the value of 64 producing 0 adjustment. As values get higher the sound becomes increasingly eccentric. Note that for some voices the effective parameter range is narrower than the legal parameter range.
- RELEASE TIME applies adjustment to the envelope release time set by the voice. This parameter specifies relative change with the value of 64 producing 0 adjustment.
- ATTACK TIME applies adjustment to the envelope attack time set by the voice. This parameter specifies relative change with the value of 64 producing 0 adjustment.
- BRIGHTNESS applies adjustment to the cut-off frequency set by the voice. This parameter specifies relative change with the value of 64 producing 0 adjustment. Lower voices produce a softer sound. For some voices the effective parameter range is narrower than the legal parameter range.

(3-2) CHANNEL MODE MESSAGES

STATUS	1011nnnn(BnH)	n = 0 - 15 VOICE CHANNEL NUMBER
CONTROL NUMBER	0ccccccc	c = CONTROL NUMBER
CONTROL VALUE	0vvvvvvv	v = DATA VALUE

(3-2-1) ALL SOUND OFF (Receive only)
(CONTROL NUMBER = 78H , DATA VALUE = 0)

Switches off all sound from the channel. Reset Note On and Hold On conditions established by Channel Messages.

(3-2-2) RESET ALL CONTROLLERS (Receive only)
(CONTROL NUMBER = 79H , DATA VALUE = 0)

Resets controllers as follows.

PITCH BEND CHANGE	0 (Center)
AFTER TOUCH	0 (min.)
MODULATION	0 (min.)
EXPRESSION	127 (max.)
SUSTAIN	0 (off)
SOSTENUTO	0 (off)
SOFT PEDAL	0 (off)
NRPN	Sets number to null. (Internal data remains unchanged)
RPN	Sets number to null. (Internal data remains unchanged)
PORTAMENT CONTROL	Resets portamento source note number
PORTAMENTO	0 (off)

(3-2-3) ALL NOTES OFF (Receive only)
(CONTROL NUMBER = 7BH , DATA VALUE = 0)

Switches off all of the channel's "on" notes. However, any notes being held by SUSTAIN or SOSTENUTO continue to sound until SUSTAIN/SOSTENUTO goes off.

(3-2-4) OMNI OFF (Receive only) (CONTROL NUMBER = 7CH , DATA VALUE = 0)
Same processing as for All Notes Off.

(3-2-5) OMNI ON (Receive only) (CONTROL NUMBER = 7DH , DATA VALUE = 0)
Same processing as for All Notes Off. Omni On is not executed.

(3-2-6) MONO (Receive only) (CONTROL NUMBER = 7EH , DATA VALUE = 0)
Same processing as for All Notes Off. If the 3rd byte is in a range of 0-16 the corresponding channel will be changed to Mode 4 (m=1).

(3-2-7) POLY (Receive only) (CONTROL NUMBER = 7FH , DATA VALUE = 0)
Same processing as for All Sounds Off and the corresponding channel will be changed to Mode 3.

(3-3) REGISTERED PARAMETER NUMBER(RPN)

STATUS	1011nnnn(BnH)	n = 0 - 15 VOICE CHANNEL NUMBER
RPN LSB	01100100(64H)	
RPN LSB NUMBER	0ppppppp	p = RPN LSB (refer to the list below)
RPN MSB	01100101(65H)	
RPN MSB NUMBER	0qqqqqqq	q = RPN MSB (refer to the list below)
DATA ENTRY MSB	00000110(06H)	
DATA VALUE	0mmmmmmm	m = Data Value
DATA ENTRY LSB	00100110(26H)	
DATA VALUE	0lllllll	l = Data Value

First appoints the parameter for RPN MSB/LSB, then sets the parameter value for data entry MSB/LSB.

RPN		D.ENTRY			
LSB	MSB	MSB	LSB	PARAMETER NAME	DATA RANGE
00H	00H	mmH	–	PITCH BEND SENSITIVITY	00H-18H (0 - 24 semitones)
01H	00H	mmH	llH	FINE TUNE	{mmH,llH} = {00H,00H}-{40H,00H}-{7FH,7FH} (-8192*100/8192) - 0 - (+8192*100/8192)
02H	00H	mmH	–	COARSE TUNE	28H - 40H - 58H (-24 - 0 - +24 semitones)
7FH	7FH	–	–	NULL	Clears the current RPN number setting. Does not change the internal parameter settings.

(3-4) NON-REGISTERED PARAMETER NUMBER(NRPN) (Receive only)

STATUS	1011nnnn(BnH)	n = 0 - 15 VOICE CHANNEL NUMBER
NRPN LSB	01100010(62H)	
NRPN LSB NUMBER	0ppppppp	p = NRPN LSB (refer to the list below)
NRPN MSB	01100011(63H)	
NRPN MSB NUMBER	0qqqqqqq	q = NRPN MSB (refer to the list below)
DATA ENTRY MSB	00000110(06H)	
DATA VALUE	0mmmmmmm	m = Data Value

First appoints the parameter for NRPN MSB/LSB, then sets the parameter value for data entry MSB/LSB.

NRPN		D.ENTRY			
MSB	LSB	MSB	LSB	PARAMETER NAME	DATA RANGE
01H	08H	mmH	–	VIBRATO RATE	00H - 40H - 7FH (-64 - 0 - +63)
01H	09H	mmH	–	VIBRATO DEPTH	00H - 40H - 7FH (-64 - 0 - +63)
01H	0AH	mmH	–	VIBRATO DELAY	00H - 40H - 7FH (-64 - 0 - +63)
01H	20H	mmH	–	FILTER CUTOFF FREQUENCY	00H - 40H - 7FH (-64 - 0 - +63)
01H	21H	mmH	–	FILTER RESONANCE	00H - 40H - 7FH (-64 - 0 - +63)
01H	63H	mmH	–	EG ATTACK TIME	00H - 40H - 7FH (-64 - 0 - +63)
01H	64H	mmH	–	EG DECAY TIME	00H - 40H - 7FH (-64 - 0 - +63)
01H	66H	mmH	–	EG RELEASE	00H - 40H - 7FH (-64 - 0 - +63)
14H	rrH	mmH	–	DRUM FILTER CUTOFF FREQ.	00H - 40H - 7FH (-64 - 0 - +63)
15H	rrH	mmH	–	DRUM FILTER RESONANCE	00H - 40H - 7FH (-64 - 0 - +63)
16H	rrH	mmH	–	DRUM AEG ATTACK RATE	00H - 40H - 7FH (-64 - 0 - +63)
17H	rrH	mmH	–	DRUM AEG DECAY RATE	00H - 40H - 7FH (-64 - 0 - +63)
18H	rrH	mmH	–	DRUM PITCH COARSE	00H - 40H - 7FH (-64 - 0 - +63)
19H	rrH	mmH	–	DRUM PITCH FINE	00H - 40H - 7FH (-64 - 0 - +63)
1AH	rrH	mmH	–	DRUM LEVEL	00H - 7FH (0 - max.)
1CH	rrH	mmH	–	DRUM PANPOT	00H ,01H - 40H - 7FH (random,left - center - right)
1DH	rrH	mmH	–	DRUM REVERB SEND LEVEL	00H - 7FH (0 - max.)
1EH	rrH	mmH	–	DRUM CHORUS SEND LEVEL	00H - 7FH (0 - max.)
1FH	rrH	mmH	–	DRUM VARIATION SEND LEVEL	00H - 7FH (0 - max.)

The MSB 14H-1FH (for drums) message is received when multi-part parameters PART MODE = DRUMS1...2.

rrH : drum instrument note number

(3-5) SYSTEM REALTIME MESSAGES

(3-5-1) MIDI CLOCK
STATUS 11111000 (F8H)

Transmission: 96 clocks per measure are transmitted.
Reception: If the instrument's clock is set to external, after FAH is received from the external device the instrument's clock will sync with the 96 beats per measure received from the external device.
Decides whether the internal clock, or Timing Clocks received via the MIDI IN will be used.

(3-5-2) START
STATUS 11111010 (FAH)

Transmission: Transmitted when instrument's Rhythm or Song playback is started.
Reception: Depending upon the condition, Rhythm, Song Playback, or Song Rec will start.

(3-5-3) STOP
STATUS 11111100 (FCH)

Transmission: Transmitted when instrument's Rhythm or Song playback is stopped.
Reception: Depending upon the condition, Rhythm, Song Playback, or Song Rec will stop.

(3-5-4) ACTIVE SENSING

```
STATUS    11111110 (FEH)
```

Transmission: Transmitted approximately once every 200msec.
Reception: Sensing is started once this Code is received. If Status or Data is not received within 400ms, the MIDI Receive Buffer will be cleared, and all notes, including those being sustained, will be cut OFF. Also, all control values will be reset to their factory defaults.

(3-6) SYSTEM EXCLUSIVE MESSAGE

(3-6-1) YAMAHA MIDI FORMAT

(3-6-1-1) SECTION CONTROL

```
binary      hexadecimal
11110000    F0           Exclusive status
01000011    43           YAMAHA ID
01111110    7E           Style
00000000    00
0sssssss    SS           Switch No.
                         00H       : INTRO A
                         01H       : INTRO B
                         02H       : INTRO C/D
                         03H~07H   : INTRO C/D
                         08H       : MAIN A
                         09H       : MAIN B
                         0AH       : MAIN C
                         0BH~0FH   : MAIN D
                         10H       : FILL IN A
                         11H       : FILL IN B
                         12H       : FILL IN C
                         13H~17H   : FILL IN D
                         18H       : BREAK FILL
                         19H       : BREAK FILL
                         1AH       : BREAK FILL
                         1BH~1FH   : BREAK FILL
                         20H       : ENDING A
                         21H       : ENDING B
                         22H       : ENDING C/D
                         23H~27H   : ENDING C/D
0ddddddd    DD           Switch On/Off: 00H(Off),7FH(On)
11110111    F7           End of Exclusive
```

When an ON code is received, the appointed section will be changed.

(3-6-1-2) TEMPO CONTROL

```
binary      hexadecimal
11110000    F0           Exclusive status
01000011    43           YAMAHA ID
01111110    7E           Style
00000000    01
0ttttttt    TT           Tempo4
0ttttttt    TT           Tempo3
0ttttttt    TT           Tempo2
0ttttttt    TT           Tempo1
11110111    F7           End of Exclusive
```

The internal clock will be set to the received Tempo value.
Tempo Meta Event is a large data block (24-bit), it is divided into 4 groups with 7-bits going into each of the Tempos 1-4 (4 receives the remaining 3 bits).

(3-6-1-3) CHORD CONTROL type1

```
binary      hexadecimal
11110000    F0           Exclusive status
01000011    43           YAMAHA ID
01111110    7E           Style
00000010    02           type 1
0ddddddd    dd           chord root(cr)
0ddddddd    dd           chord type(ct)
0ddddddd    dd           bass note(bn)
0ddddddd    dd           bass type(bt)
11111110    F7           End of Exclusive
```

Chord transmit: Transmitted using type 1 format.

cr   Chord Root   0kkknnnn (kkk:Change symbol, nnnn:Note)

Binary	Hex	Change symbol	Binary	Hex	Note
0000nnnn	0n	bbb(3 flats)	0kkk0000	k0	reserved
0001nnnn	1n	bb (2 flats)	0kkk0001	k1	C
0010nnnn	2n	b (1 flat)	0kkk0010	k2	D
0011nnnn	3n	natural	0kkk0011	k3	E
0100nnnn	4n	# (1 sharp)	0kkk0100	k4	F
0101nnnn	5n	## (2 sharps)	0kkk0101	k5	G
0110nnnn	6n	###(3 sharps)	0kkk0110	k6	A
			0kkk0111	k7	B

ct   Chord Type   0 - 34,127

Binary	Hex	Dec	Chord type	Binary	Hex	Dec	Chord type
00000000	00	0	Maj	00010010	12	18	dim7
00000001	01	1	Maj6	00010011	13	19	7th
00000010	02	2	Maj7	00010100	14	20	7sus4
00000011	03	3	Maj7(#11)	00010101	15	21	7b5
00000100	04	4	Maj(9)	00010110	16	22	7(9)
00000101	05	5	Maj7(9)	00010111	17	23	7(#11)
00000110	06	6	Maj6(9)	00011000	18	24	7(13)
00000111	07	7	aug	00011001	19	25	7(b9)
00001000	08	8	min	00011010	1A	26	7(b13)
00001001	09	9	min6	00011011	1B	27	7(#9)
00001010	0A	10	min7	00011100	1C	28	Maj7aug
00001011	0B	11	min7b5	00011101	1D	29	7aug
00001100	0C	12	min(9)	00011110	1E	30	1+8
00001101	0D	13	min7(9)	00011111	1F	31	1+5
00001110	0E	14	min7(11)	00100000	20	32	sus4
00001111	0F	15	minMaj7	00100001	21	33	1+2+5
00010000	10	16	minMaj7(9)	00100010	22	34	cc
00010001	11	17	dim				

bn	On Bass Note	Same as Chord root, 127:No bass chord
bt	Bass Chord	Same as Chord type 127:No bass chord

(3-6-2) UNIVERSAL SYSTEM EXCLUSIVE

(3-6-2-1) UNIVERSAL REALTIME MESSAGE

(3-6-2-1-1) MIDI MASTER VOLUME (Receive only)

```
binary      hexadecimal
11110000    F0           Exclusive status
01111110    7F           Universal Realtime
01111111    7F           ID of target Device
00001001    04           Sub-ID #1=Device Control Message
00000001    01           Sub-ID #2=Master Volume
0sssssss    SS           Volume LSB
0ttttttt    TT           Volume MSB
11110111    F7           End of Exclusive
  or
11110000    F0           Exclusive status
01111110    7F           Universal Realtime
0xxxnnnn    XN           When N is received N=0-F, whichever is received.
                         When N is transmitted N always=0.
                         X = don't care
00001001    04           Sub-ID #1=Device Control Message
00000001    01           Sub-ID #2=Master Volume
0sssssss    SS           Volume LSB
0ttttttt    TT           Volume MSB
11110111    F7           End of Exclusive
```

The volume for all channels will be changed simultaneously.
The TT value is used as the MIDI Master Volume value. (the SS value is ignored.)

(3-6-2-2) UNIVERSAL NON REALTIME MESSAGE

(3-6-2-2-1) GENERAL MIDI SYSTEM ON

```
binary      hexadecimal
11110000    F0          Exclusive status
01111110    7E          Universal Non-Realtime
01111111    7F          ID of target Device
00001001    09          Sub-ID #1=General MIDI Message
00000001    01          Sub-ID #2=General MIDI On
11110111    F7          End of Exclusive
  or
11110000    F0          Exclusive status
01111110    7E          Universal Non-Realtime
0xxxnnnn    XN          When N is received N=0-F, whichever is received.
                        When N is transmitted N always=0.
                        X = don't care
00001001    09          Sub-ID #1=General MIDI Message
00000001    01          Sub-ID #2=General MIDI On
11110111    F7          End of Exclusive
```

Depending upon the received ON message, the System Mode will be changed to XG.
Except MIDI Master Tuning, all control data be reset to default values.
This message requires approximately 50ms to execute, so sufficient time should be allowed before the next message is sent.

After the GM System ON message is received, message reception of the following will be limited.

- Bank Select MSB-LSB in channel 10 will be ignored and the drum voice will be fixed.
- Bank Select MSB-LSB except in channel 10 will be ignored except 127/0.
- NRPN is not received.

When XG SYSTEM ON is received, these restrictions will be cancelled.

(3-6-3) XG STANDARD

(3-6-3-1) XG PARAMETER CHANGE

(3-6-3-1-1) XG SYSTEM ON

```
binary      hexadecimal
11110000    F0          Exclusive status
01000011    43          YAMAHA ID
0001nnnn    1N          Device Number
01001100    4C          Model ID
00000000    00          Address High
00000000    00          Address Mid
01111110    7E          Address Low
00000000    00          Data
11110111    F7          End of Exclusive
```

Depending upon the received ON message, the SYSTEM MODE will be changed to XG.Controllers will be reset, all values of Multi Part and Effect, and All System values denoted by "XG" data within All System will be reset to default values in the table.
This message requires approximately 50ms to execute, so sufficient time should be allowed before the next message is sent.

(3-6-3-1-2) XG PARMETER CHANGE

```
binary      hexadecimal
11110000    F0          Exclusive status
01000011    43          YAMAHA ID
0001nnnn    1N          Device Number
01001100    4C          Model ID
0aaaaaaa    AA          Address High
0aaaaaaa    AA          Address Mid
0aaaaaaa    AA          Address Low
0ddddddd    DD          Data
 |          |
11110111    F7          End of Exclusive
```

For parameters with data size of 2 or 4, transmit the appropriate number of data bytes.
For more information on Address and Parameters, refer to < Table 1-2 > (page 20) and < Table 1-4 > ~ < Table 1-6 > (pages 20-23).

The following Parameter Changes are handled.

```
            XG System Data
            Multi Effect 1 Data
            Multi Part Data
            Drums Setup Data
```

(3-6-3-2) XG BULK DUMP

```
binary      hexadecimal
11110000    F0          Exclusive status
01000011    43          YAMAHA ID
0000nnnn    0N          Device Number
01001100    4C          Model ID
0bbbbbbb    BB          ByteCount
0bbbbbbb    BB          ByteCount
0aaaaaaa    AA          Address High
0aaaaaaa    AA          Address Mid
0aaaaaaa    AA          Address Low
0ddddddd    DD          Data
 |          |
0ccccccc    CC          Check sum
11110111    F7          End of Exclusive
```

For more information on Address and Byte Count, refer to < Table 1-2 > ~ < Table 1-6 > (pages 20-23).
The Check Sum value is set such that the sum of Byte Count, Address, Data, and Check Sum has value zero in its seven least significant bits.
If the top of the block is appointed to the Address the XG Bulk Dump, Bulk Request will be received.
The Block is a unit that consists of the data, arranged in the list, as the Total Size.

The following Bulk Dumps are handled.

```
            XG System Data
            Multi Effect 1 Data(Individual effect unit)
            Multi Part Data(Individual part unit)
            Drums Setup Data(Individual note unit)
            System Information(Transmit only)
```

(3-6-3-3) XG PARAMETER REQUEST (Receive only)

```
binary      hexadecimal
11110000    F0          Exclusive status
01000011    43          YAMAHA ID
0011nnnn    3n          Device Number
01001100    4C          Model ID
0aaaaaaa    AA          Address High
0aaaaaaa    AA          Address Mid
0aaaaaaa    AA          Address Low
11110111    F7          End of Exclusive
```

For more information on Address and Byte Count refer to < Table 1-2 > (page 20) and < Table 1-4 > ~ < Table 1-6 > (pages 20-23).

The following Parameter Requests are handled.

```
            XG System Data
            Multi Effect 1 Data
            Multi Part Data
            Drums Setup Data
```

(3-6-3-4) XG DUMP REQUEST (Receive only)

```
binary      hexadecimal
11110000    F0          Exclusive status
01000011    43          YAMAHA ID
0010nnnn    2n          Device Number
01001100    4C          Model ID
0aaaaaaa    AA          Address High
0aaaaaaa    AA          Address Mid
0aaaaaaa    AA          Address Low
11110111    F7          End of Exclusive
```

For more information on Address and Byte Count refer to < Table 1-2 > ~ < Table 1-6 > (pages 20-23).

The following Dump Requests are handled.

```
            XG System Data
            Multi Effect 1 Data(Individual module unit)
            Multi Part Data(Individual part unit)
            Drums Setup Data(Individual note unit)
            System Information
```

(3-6-4) CLAVINOVA MIDI COMPLIANCE

(3-6-4-1) INTERNAL CLOCK / EXTERNAL CLOCK (Receive only)

```
binary      hexadecimal
11110000    F0          Exclusive status
01000011    43          YAMAHA ID
01110011    73          Clavinova ID
00000001    01          Clavinova common ID
0000001n    0N          N: 2(Internal Clock),3(External Clock)
11110111    F7          End of Exclusive
```

(3-6-4-2) DOC MULTI TIMBRE ON / OFF (Receive only)

binary	hexadecimal	
11110000	F0	Exclusive status
01000011	43	YAMAHA ID
01110011	73	Clavinova ID
00000001	01	Clavinova commmon ID
00000110	1N	N:3(DOC Multi Timbre Off),4(DOC Multi Timbre On)
11110111	F7	End of Exclusive

(3-6-4-3) PANEL LED ON / OFF (Receive only)

binary	hexadecimal	
11110000	F0	Exclusive status
01000011	43	YAMAHA ID
01110011	73	Clavinova ID
00000001	01	Clavinova commmon ID
00011010	1A	PANEL LED On/Off
0mmmmmmm	MM	MM:00H(LED Off),01H(LED On),02H(The LED flashes) 03H (LED All off), 04H (Panel LED returns to normal operation)
00000000	00	
0nnnnnnn	NN	LED No.
11110111	F7	End of Exclusive

Remotely switches the Panel LED On/Off.

(3-6-4-4) PANEL VOICE SETTING (Receive only)

binary	hexadecimal	
11110000	F0	Exclusive status
01000011	43	YAMAHA ID
01110011	73	Clavinova ID
01000101	01	Clavinova common ID
00100010	22	Piano Live Exclusive Substatus
00000000	00	Panel Voice Setting Substatus
0000nnnn	0n	Panel Part No. 00H (RIGHT 1) 01H (RIGHT 2) 02H (LEFT)
0mmmmmmm	mm	Bank Select MSB
0lllllll	ll	Bank Select LSB
0ppppppp	pp	Program Change
11110111	F7	End of Exclusive

(3-6-4-5) PANEL VOICE VOLUME SETTING (Receive only)

binary	hexadecimal	
11110000	F0	Exclusive status
01000011	43	YAMAHA ID
01110011	73	Clavinova ID
01000101	01	Clavinova common ID
00100010	22	Piano Live Exclusive Substatus
00000001	01	Panel Voice Volume Setting Substatus
0000nnnn	0n	Panel Part No. 00H (RIGHT 1) 01H (RIGHT 2) 02H (LEFT)
0vvvvvvv	vv	Value (0 - 7FH)
11110111	F7	End of Exclusive

(3-6-4-6) PANEL VOICE REVERB DEPTH SETTING (Receive only)

binary	hexadecimal	
11110000	F0	Exclusive status
01000011	43	YAMAHA ID
01110011	73	Clavinova ID
01000101	01	Clavinova common ID
00100010	22	Piano Live Exclusive Substatus
00000010	02	Panel Voice Reverb Depth Setting Substatus
0000nnnn	0n	Panel Part No. 00H (RIGHT 1) 01H (RIGHT 2) 02H (LEFT)
0vvvvvvv	vv	Value (0 - 7FH)
11110111	F7	End of Exclusive

(3-6-4-7) PANEL VOICE EFFECT DEPTH SETTING (Receive only)

binary	hexadecimal	
11110000	F0	Exclusive status
01000011	43	YAMAHA ID
01110011	73	Clavinova ID
01000101	01	Clavinova common ID
00100010	22	Piano Live Exclusive Substatus
00000011	03	Panel Voice Effect Depth Setting Substatus
0000nnnn	0n	Panel Part No. 00H (RIGHT 1) 01H (RIGHT 2) 02H (LEFT)
0vvvvvvv	vv	Value (0 - 7FH)
11110111	F7	End of Exclusive

(3-6-4-8) MIDI FA CANCEL (Receive only)

binary	hexadecimal	
11110000	F0	Exclusive status
01000011	43	YAMAHA ID
01110011	73	Clavinova ID
01000101	01	Clavinova common ID
01100001	61	MIDI FA Cancel
11110111	F7	End of Exclusive

If this message is received, even if FAH is received the Rhythm will not start.

(3-6-5) SPECIAL OPERATORS

(3-6-5-1) SPLIT POINT

binary	hexadecimal	
11110000	F0	Exclusive status
01000011	43	YAMAHA ID
01110011	73	Clavinova ID
01000101	01	Clavinova common ID
00010001	11	Sub ID
00000000	00	
00010100	14	Split Point
0ddddddd	DD	Split Key No.
11110111	F7	End of Exclusive

(3-6-5-2) STYLE NUMBER

binary	hexadecimal	
11110000	F0	Exclusive status
01000011	43	YAMAHA ID
01110011	73	Clavinova ID
01011010	5E	CVP-201 ID
00010001	11	Sub ID
00000000	00	Channel No. (always 00)
00010110	16	Style No. Control No.
0mmmmmmm	mm	Style No. MSB
0lllllll	ll	Style No. LSB
11110111	F7	End of Exclusive

(3-6-5-3) FINGERING

binary	hexadecimal	
11110000	F0	Exclusive status
01000011	43	YAMAHA ID
01110011	73	Clavinova ID
01000101	01	Clavinova common ID
00010001	11	Sub ID
00000000	00	
01000000	40	Fingering
0000dddd	0D	0D: 00H(Off),01H(Single Finger), 02H(Fingered 1),03H(Fingered 2), 04H(Full Keyboard),07H(Multi Finger)
11110111	F7	End of Exclusive

(3-6-5-4) ACCOMP VOLUME

binary	hexadecimal	
11110000	F0	Exclusive status
01000011	43	YAMAHA ID
01110011	73	Clavinova ID
01000101	01	Clavinova common ID
00010001	11	Sub ID
0000nnnn	0N	Part: 00H(All Part),05H(Rhythm),0AH(Bass), 06H(Chord),0DH(Pad),07H(Phrase)
01000000	42	Accomp Volume
0ddddddd	DD	Volume Data: 00H~7FH
11110111	F7	End of Exclusive

(3-6-5-5) CHANNEL DETUNE

binary	hexadecimal	
11110000	F0	Exclusive status
01000011	43	YAMAHA ID
01110011	73	Clavinova ID
01000101	01	Clavinova common ID
00010001	11	Sub ID
0000nnnn	0N	N = MIDI Channel
01000011	43	Dual Detune
0vvvvvvv	VV	Value VV: 00H - 40H - 7FH (-64 - 0 - +63)
11110111	F7	End of Exclusive

The Channel Detune message only affects the specified channel.

(3-6-5-6) VOLUME ,EXPRESSION AND PAN REALTIME CONTROL OFF

```
binary      hexadecimal
11110000    F0          Exclusive status
01000011    43          YAMAHA ID
01110011    73          Clavinova ID
01000101    01          Clavinova common ID
00010001    11          Sub ID
0000nnnn    0N          N = MIDI Channel
01001001    45          Volume and Expression Realtime Control Off
0vvvvvvv    VV          Value VV: off=7FH, on=00H
11110111    F7          End of Exclusive
```

When "On" is received, subsequent volume, expression, and PAN changes are only valid after the reception of the next key on. Normal operation resumes when "Off" is received.

(3-6-5-7) MIDI KEY LED MODE ON / OFF (Receive only)

```
binary      hexadecimal
11110000    F0          Exclusive status
01000011    43          YAMAHA ID
01110011    73          Clavinova ID
01000101    01          Clavinova common ID
00010001    11          Sub ID
0000nnnn    0N          N = MIDI Channel
01000111    47          MIDI Key LED Mode On / Off
0ddddddd    DD          DD: 00H(Key LED Mode Off),
                            01H(Key LED Mode On + no tone),
                            02H(Key LED Mode On + tone)
11110111    F7          End of Exclusive
```

(3-6-6) Others

(3-6-6-1) MIDI MASTER TUNING (Receive only)

```
binary      hexadecimal
11110000    F0          Exclusive status
01000011    43          YAMAHA ID
0001nnnn    1N          When N is received N=0-F,
                        whichever is received.
00100111    27          Model ID
00110000    30          Sub ID
00000000    00
00000000    00
0mmmmmmm    MM          Master Tune MSB
0lllllll    LL          Master Tune LSB
0ccccccc    CC          don't care
11110111    F7          End of Exclusive
```

Changes tuning of all channels.
MM, LL values are used to define the MIDI Master Tuning value.

T = M – 128

T: Tuning value (-99 cents to +99 cents)
M: A single byte value (28–228) that consists of bits 0–3 of MM as MSB, bits 0–3 of LL as LSB.

This setting is not reset when the GM System or XG System is turned on.

< Table 1-1>

Parameter Basic Address

	Parameter Change Address (H)(M)(L)	Description	Address	Parameter
SYSTEM	00 00 00	System		
	00 00 7D	Drum Setup Reset		
	00 00 7E	XG System On		
	00 00 7F	All Parameter Reset		
INFORMATION	01 00 00	System Information		
EFFECT 1	02 01 00	Effect1(Reverb,Chorus,Variation)		
MULTI PART	08 00 00	Multi Part 1		
	:			
	08 0F 00	Multi Part 16		
DRUM	30 0D 00	Drum Setup 1 ⟶		
	31 0D 00	Drum Setup 2		
			3n 0D 00	note number 13
			3n 0E 00	note number 14
			: :	
			3n 5B 00	note number 91

< Table 1-2 >

MIDI Parameter Change table (SYSTEM)

Address (H)	Size (H)	Data (H)	Parameter Name	Description	Default Value(H)
00 00 00	4	0000	Master Tune	-102.4..+102.3[cent]	00 04 00 00
01		..07FF		1st bit3-0 -> bit15-12	(0400)
02				2nd bit3-0 -> bit11-8	
03				3rd bit3-0 -> bit7-4	
				4th bit3-0 -> bit3-0	
04	1	00..7F	Master Volume	0..127	7F
05	1		Not Used		
06	1	28..58	Transpose	-24..+24[semitones]	40
7D		n	Drum Setup Reset	n=Drum Setup Number	
7E		00	XG System On	00=XG Sytem on	
7F		00	All Parameter Reset	00=on (receive only)	
TOTAL SIZE	6				

< Table 1-3 >

MIDI Parameter table (System information)

Address (H)	Size (H)	Data (H)	Parameter Name	Description
01 00 00	E	20..7F	Model Name	32..127(ASCII)
:				
0D				
0E	1	00		
0F	1	01		
TOTAL SIZE	10			

(Transmitted by Dump Request. Not received. Bulk Dump Only)

< Table 1-4 >

MIDI Parameter Change table (EFFECT 1)

Address (H)	Size (H)	Data (H)	Parameter Name	Description	Default Value(H)
02 01 00	2	00..7F	Reverb Type MSB	Refer to the Effect Type List	01(=HALL1)
		00..7F	Reverb Type LSB	00 : basic type	00
02	1	00..7F	Reverb Parameter 1	Refer to the Ef. Parameter List	Depend on Reverb type
03	1	00..7F	Reverb Parameter 2	Refer to the Ef. Parameter List	Depend on Reverb type
04	1	00..7F	Reverb Parameter 3	Refer to the Ef. Parameter List	Depend on Reverb type
05	1	00..7F	Reverb Parameter 4	Refer to the Ef. Parameter List	Depend on Reverb type
06	1	00..7F	Reverb Parameter 5	Refer to the Ef. Parameter List	Depend on Reverb type
07	1	00..7F	Reverb Parameter 6	Refer to the Ef. Parameter List	Depend on Reverb type
08	1	00..7F	Reverb Parameter 7	Refer to the Ef. Parameter List	Depend on Reverb type
09	1	00..7F	Reverb Parameter 8	Refer to the Ef. Parameter List	Depend on Reverb type
0A	1	00..7F	Reverb Parameter 9	Refer to the Ef. Parameter List	Depend on Reverb type
0B	1	00..7F	Reverb Parameter 10	Refer to the Ef. Parameter List	Depend on Reverb type
0C	1	00..7F	Reverb Return	-∞..0..+6dB(0..96..127)	40
0D	1	01..7F	Reverb Pan	L63..C..R63(1..64..127)	40
TOTAL SIZE 0E					

02	01	10	1	00..7F	Reverb Parameter 11	Refer to the Ef. Parameter List	Depend on Reverb type
		11	1	00..7F	Reverb Parameter 12	Refer to the Ef. Parameter List	Depend on Reverb type
		12	1	00..7F	Reverb Parameter 13	Refer to the Ef. Parameter List	Depend on Reverb type
		13	1	00..7F	Reverb Parameter 14	Refer to the Ef. Parameter List	Depend on Reverb type
		14	1	00..7F	Reverb Parameter 15	Refer to the Ef. Parameter List	Depend on Reverb type
		15	1	00..7F	Reverb Parameter 16	Refer to the Ef. Parameter List	Depend on Reverb type
TOTAL SIZE 6							
02	01	20	2	00..7F	Chorus Type MSB	Refer to the Effect Type List	41(=Chorus1)
				00..7F	Chorus Type LSB	00 : basic type	00
		22	1	00..7F	Chorus Parameter 1	Refer to the Ef. Parameter List	Depend on Chorus Type
		23	1	00..7F	Chorus Parameter 2	Refer to the Ef. Parameter List	Depend on Chorus Type
		24	1	00..7F	Chorus Parameter 3	Refer to the Ef. Parameter List	Depend on Chorus Type
		25	1	00..7F	Chorus Parameter 4	Refer to the Ef. Parameter List	Depend on Chorus Type
		26	1	00..7F	Chorus Parameter 5	Refer to the Ef. Parameter List	Depend on Chorus Type
		27	1	00..7F	Chorus Parameter 6	Refer to the Ef. Parameter List	Depend on Chorus Type
		28	1	00..7F	Chorus Parameter 7	Refer to the Ef. Parameter List	Depend on Chorus Type
		29	1	00..7F	Chorus Parameter 8	Refer to the Ef. Parameter List	Depend on Chorus Type
		2A	1	00..7F	Chorus Parameter 9	Refer to the Ef. Parameter List	Depend on Chorus Type
		2B	1	00..7F	Chorus Parameter 10	Refer to the Ef. Parameter List	Depend on Chorus Type
		2C	1	00..7F	Chorus Return	-∞..0..+6dB(0..96..127)	40
		2D	1	01..7F	Chorus Pan	L63..C..R63(1..64..127)	40
		2E	1	00..7F	Send Chorus To Reverb	-∞..0..+6dB(0..96..127)	00
TOTAL SIZE 0F							
02	01	30	1	00..7F	Chorus Parameter 11	Refer to the Ef. Parameter List	Depend on Chorus Type
		31	1	00..7F	Chorus Parameter 12	Refer to the Ef. Parameter List	Depend on Chorus Type
		32	1	00..7F	Chorus Parameter 13	Refer to the Ef. Parameter List	Depend on Chorus Type
		33	1	00..7F	Chorus Parameter 14	Refer to the Ef. Parameter List	Depend on Chorus Type
		34	1	00..7F	Chorus Parameter 15	Refer to the Ef. Parameter List	Depend on Chorus Type
		35	1	00..7F	Chorus Parameter 16	Refer to the Ef. Parameter List	Depend on Chorus Type
TOTAL SIZE 6							
02	01	40	2	00..7F	Variation Type MSB	Refer to the Effect Type List	"05(=DELAY L,C,R)"
				00..7F	Variation Type LSB	00 : basic type	00
		42	2	00..7F	Vari. Param. 1 MSB	Refer to the Ef. Parameter List	Depend on Vari. Type
				00..7F	Vari. Param. 1 LSB	Refer to the Ef. Parameter List	Depend on Vari. Type
		44	2	00..7F	Vari. Param. 2 MSB	Refer to the Ef. Parameter List	Depend on Vari. Type
				00..7F	Vari. Param. 2 LSB	Refer to the Ef. Parameter List	Depend on Vari. Type
		46	2	00..7F	Vari. Param. 3 MSB	Refer to the Ef. Parameter List	Depend on Vari. Type
				00..7F	Vari. Param. 3 LSB	Refer to the Ef. Parameter List	Depend on Vari. Type
		48	2	00..7F	Vari. Param. 4 MSB	Refer to the Ef. Parameter List	Depend on Vari. Type
				00..7F	Vari. Param. 4 LSB	Refer to the Ef. Parameter List	Depend on Vari. Type
		4A	2	00..7F	Vari. Param. 5 MSB	Refer to the Ef. Parameter List	Depend on Vari. Type
				00..7F	Vari. Param. 5 LSB	Refer to the Ef. Parameter List	Depend on Vari. Type
		4C	2	00..7F	Vari. Param. 6 MSB	Refer to the Ef. Parameter List	Depend on Vari. Type
				00..7F	Vari. Param. 6 LSB	Refer to the Ef. Parameter List	Depend on Vari. Type
		4E	2	00..7F	Vari. Param. 7 MSB	Refer to the Ef. Parameter List	Depend on Vari. Type
				00..7F	Vari. Param. 7 LSB	Refer to the Ef. Parameter List	Depend on Vari. Type
		50	2	00..7F	Vari. Param. 8 MSB	Refer to the Ef. Parameter List	Depend on Vari. Type
				00..7F	Vari. Param. 8 LSB	Refer to the Ef. Parameter List	Depend on Vari. Type
		52	2	00..7F	Vari. Param. 9 MSB	Refer to the Ef. Parameter List	Depend on Vari. Type
				00..7F	Vari. Param. 9 LSB	Refer to the Ef. Parameter List	Depend on Vari. Type
		54	2	00..7F	Vari. Param. 10 MSB	Refer to the Ef. Parameter List	Depend on Vari. Type
				00..7F	Vari. Param. 10 LSB	Refer to the Ef. Parameter List	Depend on Vari. Type
		56	1	00..7F	Variation Return	-∞..0..+6dB(0..96..127)	40
		57	1	01..7F	Variation Pan	L63..C..R63(1..64..127)	40
		58	1	00..7F	Send Vari. To Reverb	-∞..0..+6dB(0..96..127)	00
		59	1	00..7F	Send Vari. To Chorus	-∞..0..+6dB(0..96..127)	00
		5A	1	00..01	Variation Connection	0:insertion,1:system	00
		5B	1	00..1F	Variation Part	part1..32(0..31),off(127)	7F
		5C	1	01..7F	MW Vari. Ctrl Depth	-63..+63	40
		5D	1	01..7F	PB Vari. Ctrl Depth	-63..+63	40
		5E	1	01..7F	CAT Vari. Ctrl Depth	-63..+63	40
		5F	1	01..7F	Not Used		
		60	1	01..7F	Not Used		
TOTAL SIZE 21							
02	01	70	1	00..7F	Variation Parameter 11	option Parameter	Depend on Variation Type
		71	1	00..7F	Variation Parameter 12	option Parameter	Depend on Variation Type
		72	1	00..7F	Variation Parameter 13	option Parameter	Depend on Variation Type
		73	1	00..7F	Variation Parameter 14	option Parameter	Depend on Variation Type
		74	1	00..7F	Variation Parameter 15	option Parameter	Depend on Variation Type
		75	1	00..7F	Variation Parameter 16	option Parameter	Depend on Variation Type
TOTAL SIZE 6							

< Table 1-5 >

MIDI Parameter Change table (MULTI PART)

Address (H)			Size (H)	Data (H)	Parameter Name	Description	Default Value(H)
08	nn	00	1	00..20	Element Reserve	0..32	0(Part10),2(Others)
	nn	01	1	00..7F	Bank Select MSB	0..127	7F(Part10),00(Others)
	nn	02	1	00..7F	Bank Select LSB	0..127	00
	nn	03	1	00..7F	Program Number	1..128	00
	nn	04	1	00..0F, 7F	Rcv Channel	0..16;1..16,127;off	Part No.
	nn	05	1	00..01	Mono/Poly Mode	0:mono,1:poly	01
	nn	06	1	00..02	Same Note Number Key On Assign	0:single 1:multi 2:inst (for DRUM)	01
	nn	07	1	00..02	Part Mode	0:normal 1..3:drum thru,drum1..2	00 (Except Part10) 02 (Part10)
	nn	08	1	28..58	Note Shift	-24..+24[semitones]	40
	nn	09	2	00..FF	Detune	-12.8..+12.7[Hz]	08 00
	nn	0A				1st bit3..0 -> bit7..4 2nd bit3..0 -> bit3..0	(80)
	nn	0B	1	00..7F	Volume	0..127	64
	nn	0C	1	00..7F	Velocity Sense Depth	0..127	40
	nn	0D	1	00..7F	Velocity Sense Offset	0..127	40
	nn	0E	1	00..7F	Pan	0:random L63..C..R63(1..64..127)	40
	nn	0F	1	00..7F	Note Limit Low	C-2..G8	00
	nn	10	1	00..7F	Note Limit High	C-2..G8	7F
	nn	11	1	00..7F	Dry Level	0..127	7F
	nn	12	1	00..7F	Chorus Send	0..127	00
	nn	13	1	00..7F	Reverb Send	0..127	28
	nn	14	1	00..7F	Variation Send	0..127	00
	nn	15	1	00..7F	Vibrato Rate	-64..+63	40
	nn	16	1	00..7F	Vibrato Depth	-64..+63	40
	nn	17	1	00..7F	Vibrato Delay	-64..+63	40
	nn	18	1	00..7F	Filter Cutoff Freq.	-64..+63	40
	nn	19	1	00..7F	Filter Resonance	-64..+63	40
	nn	1A	1	00..7F	EG Attack Time	-64..+63	40
	nn	1B	1	00..7F	EG Decay Time	-64..+63	40
	nn	1C	1	00..7F	EG Release Time	-64..+63	40
	nn	1D	1	28..58	MW Pitch Control	-24..+24[semitones]	40
	nn	1E	1	00..7F	MW Filter Control	-9600..+9450[cent]	40
	nn	1F	1	00..7F	MW Amp. Control	-100..+100[%]	40
	nn	20	1	00..7F	MW LFO PMod Depth	0..127	0A
	nn	21	1	00..7F	MW LFO FMod Depth	0..127	00
	nn	22	1	00..7F	MW LFO AMod Depth	0..127	00
	nn	23	1	28..58	Bend Pitch Control	-24..+24[semitones]	42
	nn	24	1	00..7F	Bend Filter Control	-9600..+9450[cent]	40
	nn	25	1	00..7F	Bend Amp. Control	-100..+100[%]	40
	nn	26	1	00..7F	Bend LFO PMod Depth	0..127	00
	nn	27	1	00..7F	Bend LFO FMod Depth	0..127	00
	nn	28	1	00..7F	Bend LFO AMod Depth	0..127	00
TOTAL SIZE			29				
	nn	30	1		Not Used		
		:	:		:		
	nn	40	1		Not Used		
	nn	41	1	00..7F	Scale Tuning C	-64..+63[cent]	40
	nn	42	1	00..7F	Scale Tuning C#	-64..+63[cent]	40
	nn	43	1	00..7F	Scale Tuning D	-64..+63[cent]	40
	nn	44	1	00..7F	Scale Tuning D#	-64..+63[cent]	40
	nn	45	1	00..7F	Scale Tuning E	-64..+63[cent]	40
	nn	46	1	00..7F	Scale Tuning F	-64..+63[cent]	40
	nn	47	1	00..7F	Scale Tuning F#	-64..+63[cent]	40
	nn	48	1	00..7F	Scale Tuning G	-64..+63[cent]	40
	nn	49	1	00..7F	Scale Tuning G#	-64..+63[cent]	40
	nn	4A	1	00..7F	Scale Tuning A	-64..+63[cent]	40
	nn	4B	1	00..7F	Scale Tuning A#	-64..+63[cent]	40
	nn	4C	1	00..7F	Scale Tuning B	-64..+63[cent]	40
	nn	4D	1	28..58	CAT Pitch Control	-24..+24[semitones]	40
	nn	4E	1	00..7F	CAT Filter Control	-9600..+9450[cent]	40
	nn	4F	1	00..7F	CAT Amplitude Control	-100..+100[%]	40
	nn	50	1	00..7F	CAT LFO PMod Depth	0..127	00

	nn	51	1	00..7F	CAT LFO FMod Depth	0..127	00
	nn	52	1	00..7F	CAT LFO AMod Depth	0..127	00
	nn	53			Not Used		
		:			:		
		66			Not Used		
	nn	67	1	00..01	Portamento Switch	off/on	00
	nn	68	1	00..7F	Portamento Time	0..127	00
	nn	69			Not Used		
		:			:		
		6E			Not Used		
TOTAL SIZE			3F				

08	nn	70	1	Not Used	Don't care
	nn	71	1	Not Used	Don't care
	nn	72	1	Not Used	Don't care
	nn	73	1	Not Used	Don't care
TOTAL SIZE			04		

08	nn	74	1	Not Used	Don't care
		75	1	Not Used	Don't care
		76	1	Not Used	Don't care
		77	1	Not Used	Don't care
		78	1	Not Used	Don't care
		79	1	Not Used	Don't care
		7A	1	Not Used	Don't care
		7B	1	Not Used	Don't care
		7C	1	Not Used	Don't care
		7D	1	Not Used	Don't care
		7E	1	Not Used	Don't care
		7F	1	Not Used	Don't care
TOTAL SIZE			0C		

nn = PartNumber

If there is a Drum Voice assigned to the Part, the following parameters are ineffective.

- Bank Select LSB
- Pitch EG
- Portamento
- Soft Pedal
- Mono/Poly
- Scale Tuning

<Table 1-6 >

MIDI Parameter Change table (DRUM SETUP)

Address (H)			Size	Data (H)	Parameter Name	Description	Default Value(H)
3n	rr	00	1	00..7F	Pitch Coarse	-64..+63	40
3n	rr	01	1	00..7F	Pitch Fine	-64..+63[cent]	40
3n	rr	02	1	00..7F	Level	0..127	Depend on the Note
3n	rr	03	1	00..7F	Alternate Group	0:off,1..127	Depend on the Note
3n	rr	04	1	00..7F	Pan	0:random L63..C..R63(1..64..127)	Depend on the Note
3n	rr	05	1	00..7F	Reverb Send Level	0..127	Depend on the Note
3n	rr	06	1	00..7F	Chorus Send Level	0..127	Depend on the Note
3n	rr	07	1	00..7F	Variation Send Level	0..127	7F
3n	rr	08	1	00..01	Key Assign	0:single,1:multi	00
3n	rr	09	1	00..01	Rcv Note Off	off/on	Depend on the Note
3n	rr	0A	1	00..01	Rcv Note On	off/on	01
3n	rr	0B	1	00..7F	Filter Cutoff Freq.	-64..63	40
3n	rr	0C	1	00..7F	Filter Resonance	-64..63	40
3n	rr	0D	1	00..7F	EG Attack Rate	-64..63	40
3n	rr	0E	1	00..7F	EG Decay1 Rate	-64..63	40
3n	rr	0F	1	00..7F	EG Decay2 Rate	-64..63	40
TOTAL SIZE 10							

n:Drum Setup Number(0 - 1)
rr:note number(0DH - 5BH)

If XG SYSTEM ON and/or GM SYSTEM ON message is received, all Drum Setup Parameter will be reset to default values.
According to the Drum Setup Reset message, individual Drum Setup Parameters can be reset to default values.

<Table 1-7> Effect Map

If the received value does not contain an effect type in the TYPE LSB, the LSB will be directed to TYPE 0.
The panel effects are marked by "*".

REVERB TYPE

TYPE MSB		TYPE LSB												
DEC	HEX	00	01	02	03	...	07	08	...	16	17	18	19	20
000	0	NO EFFECT												
001	1	*HALL1	HALL2							*HALL2	*HALL3	*HALL4		
002	2	ROOM1	ROOM2	ROOM3						*ROOM1	*ROOM2	*ROOM3	*ROOM4	
003	3	STAGE1	STAGE2							*STAGE1	*STAGE2			
004	4	PLATE								*PLATE1	*PLATE2			
005	5	NO EFFECT												
:	:	:												
015	F	NO EFFECT												
016	10	WHITE ROOM												
017	11	TUNNEL												
018	12	CANYON												
019	13	BASEMENT												
020	14	NO EFFECT												
:	:	:												
127	7F	NO EFFECT												

CHORUS TYPE

TYPE MSB		TYPE LSB												
DEC	HEX	00	01	02	03	...	07	08	...	16	17	18	19	20
000	0	NO EFFECT												
001	1	NO EFFECT												
:	:	:												
064	40	NO EFFECT												
065	41	CHORUS1	CHORUS2	*CHORUS5				CHORUS4						
066	42	CELESTE1	*CHORUS4	CELESTE3				*CHORUS2		*CHORUS3	*CHORUS1			
067	43	FLANGER 1	*FLANGER 4					*FLANGER1		*FLANGER2	*FLANGER3			
068	44	NO EFFECT												
:	:	:												
127	7F	NO EFFECT												

VARIATION TYPE(0 – 63)

TYPE MSB		TYPE LSB												
DEC	HEX	00	01	02	03	...	07	08	...	16	17	18	19	20
000	0	NO EFFECT												
001	1	*HALL1	HALL2							*HALL2	*HALL3	*HALL4		
002	2	ROOM1	ROOM2	ROOM3						*ROOM1	*ROOM2	*ROOM3	*ROOM4	
003	3	STAGE1	STAGE2							*STAGE1	*STAGE2			
004	4	PLATE								*PLATE1	*PLATE2			
005	5	DELAY L,C,R								*DELAY LCR				
006	6	*DELAY LR												
007	7	*ECHO												
008	8	*CROSS DELAY												
009	9	*EARLY REF1	*EARLY REF2											
010	A	*GATE REVERB												
011	B	*REVERSE GATE												
012	C	NO EFFECT or THRU												
:	:	:												
019	13	NO EFFECT or THRU												
020	14	KARAOKE 1	KARAOKE 2	KARAOKE 3										
021	15	NO EFFECT or THRU												
:	:	:												
063	3F	NO EFFECT or THRU												

VARIATION TYPE(64 – 127)

TYPE MSB		TYPE LSB												
DEC	HEX	00	01	02	03	...	07	08	...	16	17	18	19	20
064	40	THRU												
065	41	CHORUS1	CHORUS2	*CHORUS5				CHORUS4						
066	42	CELESTE1	*CHORUS4	CELESTE3				*CHORUS2		*CHORUS3	*CHORUS1	*Rotary Sp5		
067	43	FLANGER 1	*FLANGER4					*FLANGER1		*FLANGER2	*FLANGER3			
068	44	SYMPHONIC								*SYMPHONIC				
069	45	ROTARY SP.								*ROTARY SP1				
070	46	TREMOLO								*TREMOLO1	*ROTARY SP4			
071	47	AUTO PAN								*AUTO PAN	*ROTARY SP2	*ROTARY SP3	*TREMOLO2	*GTR TREMOLO
072	48	*PHASER						PHASER 2						
073	49	DISTORTION												
074	4A	OVER DRIVE												
075	4B	AMP SIM.								*DIST HARD	*DIST SOFT			
076	4C	3BAND EQ								*EQ DISCO	*EQ TEL			
077	4D	2BAND EQ												
078	4E	AUTO WAH								*AUTO WAH				
079	4F	THRU												
:	:													
127	7F	THRU												

<Table 1-8 > Effect Parameter List

XG Effect Name
HALL1,HALL2
ROOM1,ROOM2,ROOM3
STAGE1,STAGE2
PLATE (reverb, variation, insertion block)

No.	Parameter	Display	Value	See Table	Comment	Control
1	Reverb Time	0.3–30.0s	0–69	table#4		
2	Diffusion	0–10	0–10			
3	Initial Delay	0.1mS–99.3mS	0–63	table#5		
4	HPF Cutoff	Thru–8.0kHz	0–52	table#3		
5	LPF Cutoff	1.0k–Thru	34–60	table#3		
6						
7						
8						
9						
10	Dry/Wet	D63>W – D=W – D<W63	1–127			●
11	Rev Delay	0.1mS–99.3mS	0–63	table#5		
12	Density	0–3 (reverb, variation block)	0–3			
13	Er/Rev Balance	E63>R – E=R – E<R63	1–127			
14						
15	Feedback Level	-63–+63	1–127			
16						

WHITE ROOM
TUNNEL
CANYON
BASEMENT (reverb, variation block)

No.	Parameter	Display	Value	See Table	Comment	Control
1	Reverb Time	0.3–30.0s	0–69	table#4		
2	Diffusion	0–10	0–10			
3	Initial Delay	0.1mS–99.3mS	0–63	table#5		
4	HPF Cutoff	Thru–8.0kHz	0–52	table#3		
5	LPF Cutoff	1.0k–Thru	34–60	table#3		
6	Width	0.5–10.2m	0–37	table#11		
7	Heigt	0.5–20.2m	0–73	table#11		
8	Depth	0.5–30.2m	0–104	table#11		
9	Wall Vary	0–30	0–30			
10	Dry/Wet	D63>W – D=W – D<W63	1–127			●
11	Rev Delay	0.1mS–99.3mS	0–63	table#5		
12	Density	0–3	0–3			
13	Er/Rev Balance	E63>R – E=R – E<R63	1–127			
14						
15	Feedback Level	-63–+63	1–127			
16						

DELAY L,C,R (variation, insertion block)

No.	Parameter	Display	Value	See Table	Comment	Control
1	Lch Delay	0.1–715.0ms (variation block)	1–7150			
2	Rch Delay	0.1–715.0ms (variation block)	1–7150			
3	Cch Delay	0.1–715.0ms (variation block)	1–7150			
4	Feedback Delay	0.1–715.0ms (variation block)	1–7150			
5	Feedback Level	-63–+63	1–127			
6	Cch Level	0–127	0–127			
7	High Damp	0.1–1.0	1–10			
8						
9						
10	Dry/Wet	D63>W – D=W – D<W63	1–127			●
11						
12						
13	EQ Low Frequency	50Hz–2.0kHz	8–40	table#3		
14	EQ Low Gain	-12–+12dB	52–76			
15	EQ High Frequency	500Hz–16.0kHz	28–58	table#3		
16	EQ High Gain	-12–+12dB	52–76			

DELAY L,R (variation, insertion block)

No.	Parameter	Display	Value	See Table	Comment	Control
1	Lch Delay	0.1–715.0ms (variation block)	1–7150			
2	Rch Delay	0.1–715.0ms (variation block)	1–7150			
3	Feedback Delay 1	0.1–715.0ms (variation block)	1–7150			
4	Feedback Delay 2	0.1–715.0ms (variation block)	1–7150			
5	Feedback Level	-63–+63	1–127			
6	High Damp	0.1–1.0	1–10			
7						
8						
9						
10	Dry/Wet	D63>W – D=W – D<W63	1–127			●
11						
12						
13	EQ Low Frequency	50Hz–2.0kHz	8–40	table#3		
14	EQ Low Gain	-12–+12dB	52–76			
15	EQ High Frequency	500Hz–16.0kHz	28–58	table#3		
16	EQ High Gain	-12–+12dB	52–76			

ECHO (variation, insertion block)

No.	Parameter	Display	Value	See Table	Comment	Control
1	Lch Delay1	0.1–355.0ms (variation block)	1–3550			
2	Lch Feedback Level	-63–+63	1–127			
3	Rch Delay1	0.1–355.0ms (variation block)	1–3550			
4	Rch Feedback Level	-63–+63	1–127			
5	High Damp	0.1–1.0	1–10			
6	Lch Delay2	0.1–355.0ms (variation block)	1–3550			
7	Rch Delay2	0.1–355.0ms (variation block)	1–3550			
8	Delay2 Level	0–127	0–127			
9						
10	Dry/Wet	D63>W – D=W – D<W63	1–127			●
11						
12						
13	EQ Low Frequency	50Hz–2.0kHz	8–40	table#3		
14	EQ Low Gain	-12–+12dB	52–76			
15	EQ High Frequency	500Hz–16.0kHz	28–58	table#3		
16	EQ High Gain	-12–+12dB	52–76			

CROSS DELAY (variation, insertion block)

No.	Parameter	Display	Value	See Table	Comment	Control
1	L->R Delay	0.1–355.0ms (variation block)	1–3550			
2	R->L Delay	0.1–355.0ms (variation block)	1–3550			
3	Feedback Level	-63–+63	1–127			
4	Input Select	L,R,L&R	0–2			
5	High Damp	0.1–1.0	1–10			
6						
7						
8						
9						
10	Dry/Wet	D63>W – D=W – D<W63	1–127			●
11						
12						
13	EQ Low Frequency	50Hz–2.0kHz	8–40	table#3		
14	EQ Low Gain	-12–+12dB	52–76			
15	EQ High Frequency	500Hz–16.0kHz	28–58	table#3		
16	EQ High Gain	-12–+12dB	52–76			

EARLY REF1,EARLY REF2(variation block)

No.	Parameter	Display	Value	See Table	Comment	Control
1	Type	S-H, L-H, Rdm, Rvs, Plt, Spr	0–5			
2	Room Size	0.1–7.0	0–44	table#6		
3	Diffusion	0–10	0–10			
4	Initial Delay	0.1mS–99.3mS	0–63	table#5		
5	Feedback Level	-63–+63	1–127			
6	HPF Cutoff	Thru–8.0kHz	0–52	table#3		
7	LPF Cutoff	1.0k–Thru	34–60	table#3		
8						
9						
10	Dry/Wet	D63>W – D=W – D<W63	1–127			●
11	Liveness	0–10	0–10			
12	Density	0–3	0–3			
13	High Damp	0.1–1.0	1–10			
14						
15						
16						

GATE REVERB
REVERSE GATE (variation block)

No.	Parameter	Display	Value	See Table	Comment	Control
1	Type	TypeA,TypeB	0–1			
2	Room Size	0.1–20.0	0–127	table#6		
3	Diffusion	0–10	0–10			
4	Initial Delay	0.1mS–200.0mS	0–127	table#5		
5	Feedback Level	-63–+63	1–127			
6	HPF Cutoff	Thru–8.0kHz	0–52	table#3		
7	LPF Cutoff	1.0k–Thru	34–60	table#3		
8						
9						
10	Dry/Wet	D63>W – D=W – D<W63	1–127			●
11	Liveness	0–10	0–10			
12	Density	0–3	0–3			
13	High Damp	0.1–1.0	1–10			
14						
15						
16						

KARAOKE1,2,3 (variation, insertion block)

No.	Parameter	Display	Value	See Table	Comment	Control
1	Delay Time	0.1mS–400.0mS	0–127	table#7		
2	Feedback Level	-63–+63	1–127			
3	HPF Cutoff	Thru–8.0kHz	0–52	table#3		
4	LPF Cutoff	1.0k–Thru	34–60	table#3		
5						
6						
7						
8						
9						
10	Dry/Wet	D63>W – D=W – D<W63	1–127			●
11						
12						
13						
14						
15						
16						

CHORUS1,2,3,4
CELESTE1,2,3,4 (chorus, variation, insertion block)

No.	Parameter	Display	Value	See Table	Comment	Control
1	LFO Frequency	0.00Hz–39.7Hz	0–127	table#1		
2	LFO Depth	0–127	0–127			
3	Feedback Level	-63–+63	1–127			
4	Delay Offset	0.0mS–50mS	0–127	table#2		
5						
6	EQ Low Frequency	50Hz–2.0kHz	8–40	table#3		
7	EQ Low Gain	-12–+12dB	52–76			
8	EQ High Frequency	500Hz–16.0kHz	28–58	table#3		
9	EQ High Gain	-12–+12dB	52–76			
10	Dry/Wet	D63>W – D=W – D<W63	1–127			●
11						
12						
13						
14						
15	Input Mode	mono/stereo	0–1			
16						

FLANGER1,2,3 (chorus, variation, insertion block)

No.	Parameter	Display	Value	See Table	Comment	Control
1	LFO Frequency	0.00Hz–39.7Hz	0–127	table#1		
2	LFO Depth	0–127	0–127			
3	Feedback Level	-63–+63	1–127			
4	Delay Offset	0.0mS–50mS	0–127	table#2		
5						
6	EQ Low Frequency	50Hz–2.0kHz	8–40	table#3		
7	EQ Low Gain	-12–+12dB	52–76			
8	EQ High Frequency	500Hz–16.0kHz	28–58	table#3		
9	EQ High Gain	-12–+12dB	52–76			
10	Dry/Wet	D63>W – D=W – D<W63	1–127			●
11						
12						
13						
14	LFO Phase Difference	-180–+180deg(resolution=3deg.)	4–124			
15						
16						

SYMPHONIC (chorus, variation, insertion block)

No.	Parameter	Display	Value	See Table	Comment	Control
1	LFO Frequency	0.00Hz–39.7Hz	0–127	table#1		
2	LFO Depth	0–127	0–127			
3	Delay Offset	0.0mS–50mS	0–127	table#2		
4						
5						
6	EQ Low Frequency	50Hz–2.0kHz	8–40	table#3		
7	EQ Low Gain	-12–+12dB	52–76			
8	EQ High Frequency	500Hz–16.0kHz	28–58	table#3		
9	EQ High Gain	-12–+12dB	52–76			
10	Dry/Wet	D63>W – D=W – D<W63	1–127			●
11						
12						
13						
14						
15						
16						

ENSEMBLE DETUNE (chorus, variation, insertion block)

No.	Parameter	Display	Value	See Table	Comment	Control
1	Detune	-50–+50cent	14–114			
2	Lch Init Delay	0.0mS–50mS	0–127	table#2		
3	Rch Init Delay	0.0mS–50mS	0–127	table#2		
4						
5						
6						
7						
8						
9						
10	Dry/Wet	D63>W – D=W – D<W63	1–127			●
11						
12						
13						
14						
15						
16						

AMBIENCE (variation block)

No.	Parameter	Display	Value	See Table	Comment	Control
1	Delay Time	0.0mS–50mS	0–127	table#2		
2	Output Phase	normal/invers	0–1			
3						
4						
5						
6	EQ Low Frequency	32Hz–2.0kHz	4–40	table#3		
7	EQ Low Gain	-12–+12dB	52–76			
8	EQ High Frequency	500Hz–16.0kHz	28–58	table#3		
9	EQ High Gain	-12–+12dB	52–76			
10	Dry/Wet	D63>W – D=W – D<W63	1–127			●
11						
12						
13						
14						
15						
16						

ROTARY SPEAKER (variation, insertion block)

No.	Parameter	Display	Value	See Table	Comment	Control
1	LFO Frequency	0.00Hz–39.7Hz	0–127	table#1		●
2	LFO Depth	0–127	0–127			
3						
4						
5						
6	EQ Low Frequency	50Hz–2.0kHz	8–40	table#3		
7	EQ Low Gain	-12–+12dB	52–76			
8	EQ High Frequency	500Hz–16.0kHz	28–58	table#3		
9	EQ High Gain	-12–+12dB	52–76			
10	Dry/Wet	D63>W – D=W – D<W63	1–127			
11						
12						
13						
14						
15						
16						

2WAY ROTARY SPEAKER (variation block)

No.	Parameter	Display	Value	See Table	Comment	Control
1	Rotor Speed	0.0Hz–39.7Hz	0–127	table#1		●
2	Drive Low	0–127	0–127			
3	Drive High	0–127	0–127			
4	Low/High	L63>H – L=H – L<H63	1–127			
5						
6	EQ Low Frequency	32Hz–2.0kHz	4–40	table#3		
7	EQ Low Gain	-12–+12dB	52–76			
8	EQ High Frequency	500Hz–16.0kHz	28–58	table#3		
9	EQ High Gain	-12–+12dB	52–76			
10						
11	Crossover Frequency	100Hz–10.0kHz	14–54	table#3		
12	Mic L-R Angle	0deg–180deg(resolution=3deg.)	0–60			
13						
14						
15						
16						

TREMOLO (variation, insertion block)

No.	Parameter	Display	Value	See Table	Comment	Control
1	LFO Frequency	0.00Hz–39.7Hz	0–127	table#1		●
2	AM Depth	0–127	0–127			
3	PM Depth	0–127	0–127			
4						
5						
6	EQ Low Frequency	50Hz–2.0kHz	8–40	table#3		
7	EQ Low Gain	-12–+12dB	52–76			
8	EQ High Frequency	500Hz–16.0kHz	28–58	table#3		
9	EQ High Gain	-12–+12dB	52–76			
10						
11						
12						
13						
14	LFO Phase Difference	-180–+180deg(resolution=3deg.)	4–124			
15	Input Mode	mono/stereo	0–1			
16						

AUTO PAN (variation, insertion block)

No.	Parameter	Display	Value	See Table	Comment	Control
1	LFO Frequency	0.00Hz–39.7Hz	0–127	table#1		●
2	L/R Depth	0–127	0–127			
3	F/R Depth	0–127	0–127			
4	PAN Direction	L<->R,L->R,L<-R,Lturn,Rturn,L/R	0–5			
5						
6	EQ Low Frequency	50Hz–2.0kHz	8–40	table#3		
7	EQ Low Gain	-12–+12dB	52–76			
8	EQ High Frequency	500Hz–16.0kHz	28–58	table#3		
9	EQ High Gain	-12–+12dB	52–76			
10						
11						
12						
13						
14						
15						
16						

PHASER 1 (chorus, variation, insertion block)

No.	Parameter	Display	Value	See Table	Comment	Control
1	LFO Frequency	0.00Hz–39.7Hz	0–127	table#1		
2	LFO Depth	0–127	0–127			
3	Phase Shift Offset	0–127	0–127			
4	Feedback Level	-63–+63	1–127			
5						
6	EQ Low Frequency	50Hz–2.0kHz	8–40	table#3		
7	EQ Low Gain	-12–+12dB	52–76			
8	EQ High Frequency	500Hz–16.0kHz	28–58	table#3		
9	EQ High Gain	-12–+12dB	52–76			
10	Dry/Wet	D63>W – D=W – D<W63	1–127			●
11	Stage	6–10 (variation block)	6–10			
12	Diffusion	mono/stereo	0–1			
13						
14						
15						
16						

PHASER 2 (variation block)

No.	Parameter	Display	Value	See Table	Comment	Control
1	LFO Frequency	0.00Hz–39.7Hz	0–127	table#1		
2	LFO Depth	0–127	0–127			
3	Phase Shift Offset	0–127	0–127			
4	Feedback Level	-63–+63	1–127			
5						
6	EQ Low Frequency	50Hz–2.0kHz	8–40	table#3		
7	EQ Low Gain	-12–+12dB	52–76			
8	EQ High Frequency	500Hz–16.0kHz	28–58	table#3		
9	EQ High Gain	-12–+12dB	52–76			
10	Dry/Wet	D63>W – D=W – D<W63	1–127			●
11	Stage					
12		3,4,5	3–5			
13	LFO Phase Difference	-180deg–+180deg (resolution=3deg.)	4–124			
14						
15						
16						

DISTORTION
OVERDRIVE (variation, insertion block)

No.	Parameter	Display	Value	See Table	Comment	Control
1	Drive	0–127	0–127			●
2	EQ Low Frequency	50Hz–2.0kHz	8–40	table#3		
3	EQ Low Gain	-12–+12dB	52–76			
4	LPF Cutoff	1.0k–Thru	34–60	table#3		
5	Output Level	0–127	0–127			
6						
7	EQ Mid Frequency	500Hz–10.0kHz	28–54	table#3		
8	EQ Mid Gain	-12–+12dB	52–76			
9	EQ Mid Width	1.0–12.0	10–120			
10	Dry/Wet	D63>W – D=W – D<W63	1–127			
11	Edge(Clip Curve)	0–127	0–127	mild–sharp		
12						
13						
14						
15						
16						

COMP+DIST (variation block)

No.	Parameter	Display	Value	See Table	Comment	Control
1	Drive	0–127	0–127			●
2	EQ Low Frequency	32Hz–2.0kHz	4–40	table#3		
3	EQ Low Gain	-12–+12dB	52–76			
4	LPF Cutoff	1.0k–Thru	34–60	table#3		
5	Output Level	0–127	0–127			
6						
7	EQ Mid Frequency	100Hz–10.0kHz	14–54	table#3		
8	EQ Mid Gain	-12–+12dB	52–76			
9	EQ Mid Width	1.0–12.0	10–120			
10	Dry/Wet	D63>W – D=W – D<W63	1–127			
11	Edge(Clip Curve)	0–127	0–127	mild–sharp		
12	Attack	1ms–40ms	0–19	table#8		
13	Release	10ms–680ms	0–15	table#9		
14	Threshold	-48dB– -6dB	79–121			
15	Ratio	1.0–20.0	0–7	table#10		
16						

AMP SIMULATOR (variation, insertion block)

No.	Parameter	Display	Value	See Table	Comment	Control
1	Drive	0–127	0–127			●
2	AMP Type	Off,Stack,Combo,Tube	0–3			
3	LPF Cutoff	1.0k–Thru	34–60	table#3		
4	Output Level	0–127	0–127			
5						
6						
7						
8						
9						
10	Dry/Wet	D63>W – D=W – D<W63	1–127			
11	Edge(Clip Curve)	0–127	0–127	mild–sharp		
12						
13						
14						
15						
16						

3BAND EQ(MONO) (variation, insertion block)

No.	Parameter	Display	Value	See Table	Comment	Control
1	EQ Low Gain	-12–+12dB	52–76			
2	EQ Mid Frequency	500Hz–10.0kHz	28–54	table#3		
3	EQ Mid Gain	-12–+12dB	52–76			
4	EQ Mid Width	1.0–12.0	10–120			
5	EQ High Gain	-12–+12dB	52–76			
6	EQ Low Frequency	50Hz–2.0kHz	8–40	table#3		
7	EQ High Frequency	500Hz–16.0kHz	28–58	table#3		
8						
9						
10						
11						
12						
13						
14						
15	Input Mode	mono/stereo	0–1			
16						

2BAND EQ(STEREO) (variation, insertion block)

No.	Parameter	Display	Value	See Table	Comment	Control
1	EQ Low Frequency	50Hz–2.0kHz	8–40	table#3		
2	EQ Low Gain	-12–+12dB	52–76			
3	EQ High Frequency	500Hz–16.0kHz	28–58	table#3		
4	EQ High Gain	-12–+12dB	52–76			
5						
6						
7						
8						
9						
10						
11						
12						
13						
14						
15						
16						

AUTO WAH (variation, insertion block)

No.	Parameter	Display	Value	See Table	Comment	Control
1	LFO Frequency	0.00Hz–39.7Hz	0–127	table#1		
2	LFO Depth	0–127	0–127			
3	Cutoff Frequency Offset	0–127	0–127			●
4	Resonance	1.0–12.0	10–120			
5						
6	EQ Low Frequency	50Hz–2.0kHz	8–40	table#3		
7	EQ Low Gain	-12–+12dB	52–76			
8	EQ High Frequency	500Hz–16.0kHz	28–58	table#3		
9	EQ High Gain	-12–+12dB	52–76			
10	Dry/Wet	D63>W – D=W – D<W63	1–127			
11	Drive	0–127(variation block)	0–127			
12						
13						
14						
15						
16						

AUTO WAH+DIST
AUTO WHA+ODRV (variation block)

No.	Parameter	Display	Value	See Table	Comment	Control
1	LFO Frequency	0.00Hz–39.7Hz	0–127	table#1		
2	LFO Depth	0–127	0–127			
3	Cutoff Frequency Offset	0–127	0–127			●
4	Resonance	1.0–12.0	10–120			
5						
6	EQ Low Frequency	32Hz–2.0kHz	4–40	table#3		
7	EQ Low Gain	-12–+12dB	52–76			
8	EQ High Frequency	500Hz–16.0kHz	28–58	table#3		
9	EQ High Gain	-12–+12dB	52–76			
10	Dry/Wet	D63>W – D=W – D<W63	1–127			
11	Drive	0–127	0–127			
12	EQ Low Gain (distortion)		-12–+12dB	52–76		
13	EQ Mid Gain (distortion)		-12–+12dB	52–76		
14	LPF Cutoff	1.0kHz–thru	34–60	table#3		
15	Output Level	0–127	0–127			
16						

TOUCH WAH 1 (variation, insertion block)
TOUCH WAH+DIST (variation block)

No.	Parameter	Display	Value	See Table	Comment	Control
1	Sensitive	0–127	0–127			
2	Cutoff Frequency Offset	0–127	0–127			●
3	Resonance	1.0–12.0	10–120			
4						
5						
6	EQ Low Frequency	32Hz–2.0kHz	4–40	table#3		
7	EQ Low Gain	-12–+12dB	52–76			
8	EQ High Frequency	500Hz–16.0kHz	28–58	table#3		
9	EQ High Gain	-12–+12dB	52–76			
10	Dry/Wet	D63>W – D=W – D<W63	1–127			
11	Drive	0–127(variation block)	0–127			
12						
13						
14						
15						
16						

TOUCH WAH 2 (variation, insertion block)
TOUCH WAH+ODRV (variation block)

No.	Parameter	Display	Value	See Table	Comment	Control
1	Sensitive	0–127	0–127			
2	Cutoff Frequency Offset	0–127	0–127			●
3	Resonance	1.0–12.0	10–120			
4						
5						
6	EQ Low Frequency	32Hz–2.0kHz	4–40	table#3		
7	EQ Low Gain	-12–+12dB	52–76			
8	EQ High Frequency	500Hz–16.0kHz	28–58	table#3		
9	EQ High Gain	-12–+12dB	52–76			
10	Dry/Wet	D63>W – D=W – D<W63	1–127			
11	Drive	0–127(variation block)	0–127			
12	EQ Low Gain (distortion)	-12–+12dB(variation block)	52–76			
13	EQ Mid Gain (distortion)	-12–+12dB(variation block)	52–76			
14	LPF Cutoff	1.0kHz–thru(variation block)	34–60	table#3		
15	Output Level	0–127(variation block)	0–127			
16	Release	10–680ms	52–67			

PITCH CHANGE 1 (variation block)

No.	Parameter	Display	Value	See Table	Comment	Control
1	Pitch	-24–+24	40–88			
2	Initial Delay	0.1mS–400.0mS	0–127	table#7		
3	Fine 1	-50–+50	14–114			
4	Fine 2	-50–+50	14–114			
5	Feedback Level	-63–+63	1–127			
6						
7						
8						
9						
10	Dry/Wet	D63>W – D=W – D<W63	1–127			●
11	Pan 1	L63–R63	1–127			
12	Output Level 1	0–127	0–127			
13	Pan 2	L63–R63	1–127			
14	Output Level 2	0–127	0–127			
15						
16						

PITCH CHANGE 2 (variation block)

No.	Parameter	Display	Value	See Table	Comment	Control
1	Pitch	-24–+24	40–88			
2	Initial Delay	0.1mS–400.0mS	0–127	table#7		
3	Fine 1	-50–+50cent	14–114			
4	Fine 2	-50–+50cent	14–114			
5	Feedback Level	-63–+63	1–127			
6						
7						
8						
9						
10	Dry/Wet	D63>W – D=W – D<W63	1–127			●
11	Pan 1	L63–R63	1–127			
12	Output Level 1	0–127	0–127			
13	Pan 2	L63–R63	1–127			
14	Output Level 2	0–127	0–127			
15						
16						

COMPRESSOR (variation, insertion block)

No.	Parameter	Display	Value	See Table	Comment	Control
1	Attack	1–40ms	0–19	table#8		
2	Release	10–680ms	0–15	table#9		
3	Threshold	-48– -6dB	79–121			
4	Ratio	1.0–20.0	0–7	table#10		
5	Output Level	0–127	0–127			
6						
7						
8						
9						
10						
11						
12						
13						
14						
15						
16						

NOISE GATE (variation, insertion block)

No.	Parameter	Display	Value	See Table	Comment	Control
1	Attack	1–40ms	0–19	table#8		
2	Release	10–680ms	0–15	table#9		
3	Threshold	-72– -30dB	55–97			
4	Output Level	0–127	0–127			
5						
6						
7						
8						
9						
10						
11						
12						
13						
14						
15						
16						

VOICE CANCEL (variation block)

No.	Parameter	Display	Value	See Table	Comment	Control
1						
2						
3						
4						
5						
6						
7						
8						
9						
10						
11	Low Adjust	0–26	0–26			
12	High Adjust	0–26	0–26			
13						
14						
15						
16						

NO EFFECT (reverb, chorus, variation block)
THRU (variation, insertion block)

No.	Parameter	Display	Value	See Table	Comment	Control
1						
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
13						
14						
15						
16						

HARMONIC ENHANCER (variation block)

No.	Parameter	Display	Value	See Table	Comment	Control
1	HPF Cutoff	500Hz–16kHz	28–58	table#3		
2	Drive	0–127	0–127			
3	Mix Level	0–127	0–127			
4						
5						
6						
7						
8						
9						
10						
11						
12						
13						
14						
15						
16						

TALKING MODULATION (variation block)

No.	Parameter	Display	Value	See Table	Comment	Control
1	Vowel	a,i,u,e,o	0–4			
2	Move speed	1–62	1–62			
3	Drive	0–127	0–127			
4	Output Level	0–127	0–127			
5						
6						
7						
8						
9						
10						
11						
12						
13						
14						
15						
16						

LO-FI (variation block)

No.	Parameter	Display	Value	See Table	Comment	Control
1	Sampling Freq Control	a,i,u,e,o	0–4			
2	Word Length	1–62	1–62			
3	Output Gain	0–127	0–127			
4	LPF Cutoff	0–127	0–127			
5	Filter Type	Thru,PowerBass,Radio,Tel, Clean,Low	0–5			
6	LPF Resonance	1.0–12.0	10–120			
7	Bit Assign	0–6	0–6			
8	Emphasis	Off/On	0–1			
9						
10	Dry/Wet	D63>W – D=W – D<W63	1–127			●
11						
12						
13						
14						
15	Input Mode	mono/stereo				
16						

DIST+DELAY (variation block)
OVERDRIVE+DELAY (variation block)

No.	Parameter	Display	Value	See Table	Comment	Control
1	Lch Delay Time	0.1–1486.0ms	1–14860			
2	Rch Delay Time	0.1–1486.0ms	1–14860			
3	Delay Feedback Time	0.1–1486.0ms	1–14860			
4	Delay Feedback Level	-63–+63	1–127			
5	Delay Mix	0–127	0–127			
6	Dist Drive	0–127	0–127			
7	Dist Output Level	0–127	0–127			
8	Dist EQ Low Gain	-12–+12dB	52–76			
9	Dist EQ Mid Gain	-12–+12dB	52–76			
10	Dry/Wet	D63>W – D=W – D<W63	1–127			●
11						
12						
13						
14						
15						
16						

COMP+DIST+DELAY (variation block)
COMP+OVERDRIVE+DELAY (variation block)

No.	Parameter	Display	Value	See Table	Comment	Control
1	Delay Time	0.1–1486.0ms	1–14860			
2	Delay Feedback Level	-63–+63	1–127			
3	Delay Mix	0–127	0–127			
4	Dist Drive	0–127	0–127			
5	Dist Output Level	0–127	0–127			
6	Dist EQ Low Gain	-12–+12dB	52–76			
7	Dist EQ Mid Gain	-12–+12dB	52–76			
8						
9						
10	Dry/Wet	D63>W – D=W – D<W63	1–127			●
11	Comp. Attack	1ms–40ms	0–19	table#8		
12	Comp. Release	10ms–680ms	0–15	table#9		
13	Comp. Threshold	-48dB– -6dB	79–121			
14	Comp. Ratio	1.0–20.0	0–7	table#10		
15						
16						

WAH+DIST+DELAY (variation block)
WAH+OVERDRIVE+DELAY (variation block)

No.	Parameter	Display	Value	See Table	Comment	Control
1	Delay Time	0.1–1486.0ms	1–14860			
2	Delay Feedback Level	-63–+63	1–127			
3	Delay Mix	0–127	0–127			
4	Dist Drive	0–127	0–127			
5	Dist Output Level	0–127	0–127			
6	Dist EQ Low Gain	-12–+12dB	52–76			
7	Dist EQ Mid Gain	-12–+12dB	52–76			
8						
9						
10	Dry/Wet	D63>W – D=W – D<W63	1–127			●
11	Wah Sensitive	0–127	0–127			
12	Wah Cutoff Freq Offset	0–127	0–127			
13	Wah Resonance	1.0–12.0	10–120			
14	Wah Release	10–680ms	52–67			
15						
16						

Note: Parameter 10 (Dry/Wet) can only be set for insertion type effects.

<Table 1-9 > Effect Data Value Assign Table

Table#1
LFO Frequency

Data	Value	Data	Value	Data	Value	Data	Value
0	0.00	32	1.35	64	2.69	96	8.41
1	0.04	33	1.39	65	2.78	97	8.75
2	0.08	34	1.43	66	2.86	98	9.08
3	0.13	35	1.47	67	2.94	99	9.42
4	0.17	36	1.51	68	3.03	100	9.76
5	0.21	37	1.56	69	3.11	101	10.1
6	0.25	38	1.60	70	3.20	102	10.8
7	0.29	39	1.64	71	3.28	103	11.4
8	0.34	40	1.68	72	3.37	104	12.1
9	0.38	41	1.72	73	3.45	105	12.8
10	0.42	42	1.77	74	3.53	106	13.5
11	0.46	43	1.81	75	3.62	107	14.1
12	0.51	44	1.85	76	3.70	108	14.8
13	0.55	45	1.89	77	3.87	109	15.5
14	0.59	46	1.94	78	4.04	110	16.2
15	0.63	47	1.98	79	4.21	111	16.8
16	0.67	48	2.02	80	4.37	112	17.5
17	0.72	49	2.06	81	4.54	113	18.2
18	0.76	50	2.10	82	4.71	114	19.5
19	0.80	51	2.15	83	4.88	115	20.9
20	0.84	52	2.19	84	5.05	116	22.2
21	0.88	53	2.23	85	5.22	117	23.6
22	0.93	54	2.27	86	5.38	118	24.9
23	0.97	55	2.31	87	5.55	119	26.2
24	1.01	56	2.36	88	5.72	120	27.6
25	1.05	57	2.40	89	6.06	121	28.9
26	1.09	58	2.44	90	6.39	122	30.3
27	1.14	59	2.48	91	6.73	123	31.6
28	1.18	60	2.52	92	7.07	124	33.0
29	1.22	61	2.57	93	7.40	125	34.3
30	1.26	62	2.61	94	7.74	126	37.0
31	1.30	63	2.65	95	8.08	127	39.7

Table#5
Delay Time(200.0ms)

Data	Value	Data	Value	Data	Value	Data	Value
0	0.1	32	50.5	64	100.8	96	151.2
1	1.7	33	52.0	65	102.4	97	152.8
2	3.2	34	53.6	66	104.0	98	154.4
3	4.8	35	55.2	67	105.6	99	155.9
4	6.4	36	56.8	68	107.1	100	157.5
5	8.0	37	58.3	69	108.7	101	159.1
6	9.5	38	59.9	70	110.3	102	160.6
7	11.1	39	61.5	71	111.9	103	162.2
8	12.7	40	63.1	72	113.4	104	163.8
9	14.3	41	64.6	73	115.0	105	165.4
10	15.8	42	66.2	74	116.6	106	166.9
11	17.4	43	67.8	75	118.2	107	168.5
12	19.0	44	69.4	76	119.7	108	170.1
13	20.6	45	70.9	77	121.3	109	171.7
14	22.1	46	72.5	78	122.9	110	173.2
15	23.7	47	74.1	79	124.4	111	174.8
16	25.3	48	75.7	80	126.0	112	176.4
17	26.9	49	77.2	81	127.6	113	178.0
18	28.4	50	78.8	82	129.2	114	179.5
19	30.0	51	80.4	83	130.7	115	181.1
20	31.6	52	81.9	84	132.3	116	182.7
21	33.2	53	83.5	85	133.9	117	184.3
22	34.7	54	85.1	86	135.5	118	185.8
23	36.3	55	86.7	87	137.0	119	187.4
24	37.9	56	88.2	88	138.6	120	189.0
25	39.5	57	89.8	89	140.2	121	190.6
26	41.0	58	91.4	90	141.8	122	192.1
27	42.6	59	93.0	91	143.3	123	193.7
28	44.2	60	94.5	92	144.9	124	195.3
29	45.7	61	96.1	93	146.5	125	196.9
30	47.3	62	97.7	94	148.1	126	198.4
31	48.9	63	99.3	95	149.6	127	200.0

Table#8
Compressor Attack Time

Data	Value
0	1
1	2
2	3
3	4
4	5
5	6
6	7
7	8
8	9
9	10
10	12
11	14
12	16
13	18
14	20
15	23
16	26
17	30
18	35
19	40

Table#9
Compressor Release Time

Data	Value
0	10
1	15
2	25
3	35
4	45
5	55
6	65
7	75
8	85
9	100
10	115
11	140
12	170
13	230
14	340
15	680

Table#10
Compressor Ratio

Data	Value
0	1.0
1	1.5
2	2.0
3	3.0
4	5.0
5	7.0
6	10.0
7	20.0

Table#2
Modulation Delay Offset

Data	Value	Data	Value	Data	Value	Data	Value
0	0.0	32	3.2	64	6.4	96	9.6
1	0.1	33	3.3	65	6.5	97	9.7
2	0.2	34	3.4	66	6.6	98	9.8
3	0.3	35	3.5	67	6.7	99	9.9
4	0.4	36	3.6	68	6.8	100	10.0
5	0.5	37	3.7	69	6.9	101	11.1
6	0.6	38	3.8	70	7.0	102	12.2
7	0.7	39	3.9	71	7.1	103	13.3
8	0.8	40	4.0	72	7.2	104	14.4
9	0.9	41	4.1	73	7.3	105	15.5
10	1.0	42	4.2	74	7.4	106	17.1
11	1.1	43	4.3	75	7.5	107	18.6
12	1.2	44	4.4	76	7.6	108	20.2
13	1.3	45	4.5	77	7.7	109	21.8
14	1.4	46	4.6	78	7.8	110	23.3
15	1.5	47	4.7	79	7.9	111	24.9
16	1.6	48	4.8	80	8.0	112	26.5
17	1.7	49	4.9	81	8.1	113	28.0
18	1.8	50	5.0	82	8.2	114	29.6
19	1.9	51	5.1	83	8.3	115	31.2
20	2.0	52	5.2	84	8.4	116	32.8
21	2.1	53	5.3	85	8.5	117	34.3
22	2.2	54	5.4	86	8.6	118	35.9
23	2.3	55	5.5	87	8.7	119	37.5
24	2.4	56	5.6	88	8.8	120	39.0
25	2.5	57	5.7	89	8.9	121	40.6
26	2.6	58	5.8	90	9.0	122	42.2
27	2.7	59	5.9	91	9.1	123	43.7
28	2.8	60	6.0	92	9.2	124	45.3
29	2.9	61	6.1	93	9.3	125	46.9
30	3.0	62	6.2	94	9.4	126	48.4
31	3.1	63	6.3	95	9.5	127	50.0

Table#6
Room Size

Data	Value	Data	Value	Data	Value	Data	Value
0	0.1	32	5.1	64	10.1	96	15.1
1	0.3	33	5.3	65	10.3	97	15.3
2	0.4	34	5.4	66	10.4	98	15.5
3	0.6	35	5.6	67	10.6	99	15.6
4	0.7	36	5.7	68	10.8	100	15.8
5	0.9	37	5.9	69	10.9	101	15.9
6	1.0	38	6.1	70	11.1	102	16.1
7	1.2	39	6.2	71	11.2	103	16.2
8	1.4	40	6.4	72	11.4	104	16.4
9	1.5	41	6.5	73	11.5	105	16.6
10	1.7	42	6.7	74	11.7	106	16.7
11	1.8	43	6.8	75	11.9	107	16.9
12	2.0	44	7.0	76	12.0	108	17.0
13	2.1	45	7.2	77	12.2	109	17.2
14	2.3	46	7.3	78	12.3	110	17.3
15	2.5	47	7.5	79	12.5	111	17.5
16	2.6	48	7.6	80	12.6	112	17.6
17	2.8	49	7.8	81	12.8	113	17.8
18	2.9	50	7.9	82	12.9	114	18.0
19	3.1	51	8.1	83	13.1	115	18.1
20	3.2	52	8.2	84	13.3	116	18.3
21	3.4	53	8.4	85	13.4	117	18.4
22	3.5	54	8.6	86	13.6	118	18.6
23	3.7	55	8.7	87	13.7	119	18.7
24	3.9	56	8.9	88	13.9	120	18.9
25	4.0	57	9.0	89	14.0	121	19.1
26	4.2	58	9.2	90	14.2	122	19.2
27	4.3	59	9.3	91	14.4	123	19.4
28	4.5	60	9.5	92	14.5	124	19.5
29	4.6	61	9.7	93	14.7	125	19.7
30	4.8	62	9.8	94	14.8	126	19.8
31	5.0	63	10.0	95	15.0	127	20.0

Table#11
Reverb Width;Depth;Height

Data	Value	Data	Value	Data	Value	Data	Value
0	0.5	32	8.8	64	17.6	96	27.5
1	0.8	33	9.1	65	17.9	97	27.8
2	1.0	34	9.4	66	18.2	98	28.1
3	1.3	35	9.6	67	18.5	99	28.5
4	1.5	36	9.9	68	18.8	100	28.8
5	1.8	37	10.2	69	19.1	101	29.2
6	2.0	38	10.4	70	19.4	102	29.5
7	2.3	39	10.7	71	19.7	103	29.9
8	2.6	40	11.0	72	20.0	104	30.2
9	2.8	41	11.2	73	20.2		
10	3.1	42	11.5	74	20.5		
11	3.3	43	11.8	75	20.8		
12	3.6	44	12.1	76	21.1		
13	3.9	45	12.3	77	21.4		
14	4.1	46	12.6	78	21.7		
15	4.4	47	12.9	79	22.0		
16	4.6	48	13.1	80	22.4		
17	4.9	49	13.4	81	22.7		
18	5.2	50	13.7	82	23.0		
19	5.4	51	14.0	83	23.3		
20	5.7	52	14.2	84	23.6		
21	5.9	53	14.5	85	23.9		
22	6.2	54	14.8	86	24.2		
23	6.5	55	15.1	87	24.5		
24	6.7	56	15.4	88	24.9		
25	7.0	57	15.6	89	25.2		
26	7.2	58	15.9	90	25.5		
27	7.5	59	16.2	91	25.8		
28	7.8	60	16.5	92	26.1		
29	8.0	61	16.8	93	26.5		
30	8.3	62	17.1	94	26.8		
31	8.6	63	17.3	95	27.1		

Table#3
EQ Frequency

Data	Value	Data	Value
0	THRU(0)	32	800
1	22	33	900
2	25	34	1.0k
3	28	35	1.1k
4	32	36	1.2k
5	36	37	1.4k
6	40	38	1.6k
7	45	39	1.8k
8	50	40	2.0k
9	56	41	2.2k
10	63	42	2.5k
11	70	43	2.8k
12	80	44	3.2k
13	90	45	3.6k
14	100	46	4.0k
15	110	47	4.5k
16	125	48	5.0k
17	140	49	5.6k
18	160	50	6.3k
19	180	51	7.0k
20	200	52	8.0k
21	225	53	9.0k
22	250	54	10.0k
23	280	55	11.0k
24	315	56	12.0k
25	355	57	14.0k
26	400	58	16.0k
27	450	59	18.0k
28	500	60	THRU(20.0k)
29	560		
30	630		
31	700		

Table#4
Reverb time

Data	Value	Data	Value	Data	Value
0	0.3	32	3.5	64	17.0
1	0.4	33	3.6	65	18.0
2	0.5	34	3.7	66	19.0
3	0.6	35	3.8	67	20.0
4	0.7	36	3.9	68	25.0
5	0.8	37	4.0	69	30.0
6	0.9	38	4.1		
7	1.0	39	4.2		
8	1.1	40	4.3		
9	1.2	41	4.4		
10	1.3	42	4.5		
11	1.4	43	4.6		
12	1.5	44	4.7		
13	1.6	45	4.8		
14	1.7	46	4.9		
15	1.8	47	5.0		
16	1.9	48	5.5		
17	2.0	49	6.0		
18	2.1	50	6.5		
19	2.2	51	7.0		
20	2.3	52	7.5		
21	2.4	53	8.0		
22	2.5	54	8.5		
23	2.6	55	9.0		
24	2.7	56	9.5		
25	2.8	57	10.0		
26	2.9	58	11.0		
27	3.0	59	12.0		
28	3.1	60	13.0		
29	3.2	61	14.0		
30	3.3	62	15.0		
31	3.4	63	16.0		

Table#7
Delay Time(400.0ms)

Data	Value	Data	Value	Data	Value	Data	Value
0	0.1	32	100.9	64	201.6	96	302.4
1	3.2	33	104.0	65	204.8	97	305.5
2	6.4	34	107.2	66	207.9	98	308.7
3	9.5	35	110.3	67	211.1	99	311.8
4	12.7	36	113.5	68	214.2	100	315.0
5	15.8	37	116.6	69	217.4	101	318.1
6	19.0	38	119.8	70	220.5	102	321.3
7	22.1	39	122.9	71	223.7	103	324.4
8	25.3	40	126.1	72	226.8	104	327.6
9	28.4	41	129.2	73	230.0	105	330.7
10	31.6	42	132.4	74	233.1	106	333.9
11	34.7	43	135.5	75	236.3	107	337.0
12	37.9	44	138.6	76	239.4	108	340.2
13	41.0	45	141.8	77	242.6	109	343.3
14	44.2	46	144.9	78	245.7	110	346.5
15	47.3	47	148.1	79	248.9	111	349.6
16	50.5	48	151.2	80	252.0	112	352.8
17	53.6	49	154.4	81	255.2	113	355.9
18	56.8	50	157.5	82	258.3	114	359.1
19	59.9	51	160.7	83	261.5	115	362.2
20	63.1	52	163.8	84	264.6	116	365.4
21	66.2	53	167.0	85	267.7	117	368.5
22	69.4	54	170.1	86	270.9	118	371.7
23	72.5	55	173.3	87	274.0	119	374.8
24	75.7	56	176.4	88	277.2	120	378.0
25	78.8	57	179.6	89	280.3	121	381.1
26	82.0	58	182.7	90	283.5	122	384.3
27	85.1	59	185.9	91	286.6	123	387.4
28	88.3	60	189.0	92	289.8	124	390.6
29	91.4	61	192.2	93	292.9	125	393.7
30	94.6	62	195.3	94	296.1	126	396.9
31	97.7	63	198.5	95	299.2	127	400.0

YAMAHA [Clavinova] Date:01-MAR-2001
Model CVP-201 MIDI Implementation Chart Version : 1.0

Function ...		Transmitted	Recognized	Remarks
Basic Channel	Default Changed	1 - 16 1 - 16 *1	1 - 16 1 - 16 *2	Memorized
Mode	Default Messages Altered	3 x **************	3 3,4 (m=1) *3 x	
Note Number	: True voice	0 - 127 **************	0 - 127 0 - 127	
Velocity	Note ON Note OFF	o 9nH,v=1-127 x 9nH,v=0	o 9nH,v=1-127 x	
After Touch	Key's Ch's	x x	x o	
Pitch Bend		o	o 0-24 semi	
Control change	0,32	o	o	Bank Select
	1	x *4	o	Modulation
	5	x	o	Portamento Time
	7,10,11	o	o	
	6,38	o	o	Data Entry
	64,66,67	o	o	
	65	x	o	Portamento
	71-74	x *4	o	Sound Controller
	84	o	o	Portamento Cntrl
	91,93,94	o	o	Effect Depth
	96,97	x	o	RPN Inc,Dec
	98,99	x *4	o	NRPN LSB,MSB
	100,101	o	o	RPN LSB,MSB
Prog Change	: True #	o 0 - 127 **************	o 0 - 127	
System Exclusive		o	o	
Common	: Song Pos. : Song Sel. : Tune	x x x	x x x	
System Real Time	:Clock :Commands	o o	o o	
Aux Mes-sages	:All Sound Off :Reset All Cntrls :Local ON/OFF :All Notes OFF :Active Sense :Reset	x x x x o x	o(120,126,127) o(121) x o(123-125) o x	
Notes:				

Mode 1 : OMNI ON, POLY Mode 2 : OMNI ON, MONO o : Yes
Mode 3 : OMNI OFF, POLY Mode 4 : OMNI OFF, MONO x : No

Notes:
*1: The send channel for the RIGHT1, RIGHT2, and LEFT parts can be set using the Send Channel (Keyboard) function. The transmission of accompaniment, harmony, and song data can be turned on or off using the Send Channel (Accompaniment/Harmony) and Song Transmission functions.
*2: Messages received on the channel set by the Remote Keyboard function are handled as operations performed directly on the keyboard or panel. Only the following messages are received on this channel:
- Note On/Off (A-1...C7)
- Control Changes
  Bank Select MSB/LSB (RIGHT1 part)
  Modulation
  Data Entry MSB (when PITCH BEND SENS. is set by RPN LSB/MSB)
  Volume
  Expression
  Sustain
  Sostenuto
  Soft Pedal
  Data Increment/Decrement (when PITCH BEND SENS. is set by RPN LSB/MSB)
  RPN LSB/MSB (PITCH BEND SENS. only)
  All Note Off
- Program Change (RIGHT1 part)
- Pitch Bend

*3: "m" is always treated as "1" regardless of its value.
*4: Transmitted when ACMP&RHY or HARMONY setting of Send Channel (Accompaniment/Harmony) function is on.

Remarques :
*1 : Le canal d'émission pour les parties RIGHT1, RIGHT2, et LEFT peut être configuré à l'aide de la fonction Send Channel (Keyboard). La transmission des données d'accompagnement, d'harmonie et de morceau peut être activée ou désactivée à l'aide des fonctions Send Channel (Accompaniment/Harmony) et Song Transmission.
*2 : Les messages reçus sur le canal configuré à l'aide de la fonction Remote Keyboard sont traités comme des opérations réalisées directement sur le clavier ou le panneau. Seuls les messages suivants sont reçus sur ce canal :
- Note On/Off (A-1...C7)
- Control Changes
  Bank Select MSB/LSB (partie RIGHT1)
  Modulation
  Data Entry MSB (si PITCH BEND SENS. est défini à l'aide de RPN LSB/MSB)
  Volume
  Expression
  Sustain
  Sostenuto
  Soft Pedal
  Data Increment/Decrement (si PITCH BEND SENS. est défini à l'aide de RPN LSB/MSB)
  RPN LSB/MSB (PITCH BEND SENS. uniquement)
  All Note Off
- Program Change (partie RIGHT1)
- Pitch Bend

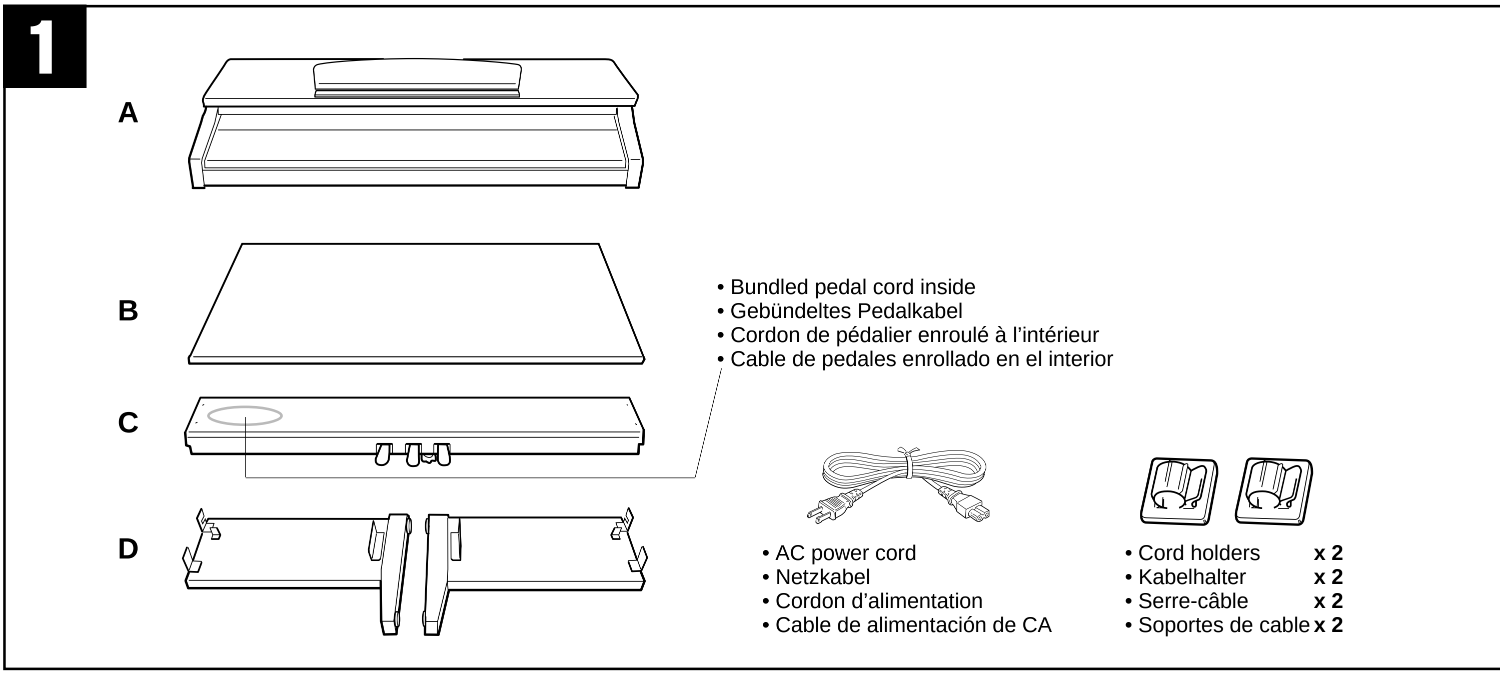
*3 : "m" équivaut toujours à "1" quelle que soit sa valeur.
*4 : Transmis(e) si le paramètre ACMP&RHY ou HARMONY de la fonction Send Channel (Accompaniment/Harmony) est activé.

Hinweise:
*1: Der Sendekanal für die Parts RIGHT1, RIGHT2 und LEFT läßt sich über die Funktion Sendekanal (Keyboard) einstellen. Die Übertragung von Begleitungs-, Harmonie- und Songdaten kann mit den Funktionen Sendekanal (Begleitung/Harmonie) und Song-Übertragung ein- bzw. ausgeschaltet werden.
*2: Meldungen, die an dem Kanal empfangen werden, der von der Remote Keyboard-Funktion eingestellt wurde, werden als direkt auf dem Keyboard oder Steuerpult ausgeführte Bedienoperationen angesehen. Nur die nachfolgend genannten Meldungen werden auf diesem Kanal empfangen:
- Noten Ein/Aus (A-1...C7)
- Steuerungsänderungs-
  Bank. Wählen Sie MSB/LSB (Part RIGHT1)
  Modulation
  Dateneintrag MSB (sofern die Option PITCH BEND SENS. (Tonlagenabtastung) von RPN LSB/MSB) eingestellt wurde
  VOLUME (LAUTSTÄRKE)
  Expression (Ausdruck)
  Sustain
  Sostenuto
  Soft Pedal
  Datenerhöhung/-erniedrigung (sofern die Option PITCH BEND SENS. (Tonlagenabtastung) von RPN LSB/MSB eingestellt wurde)
  RPN LSB/MSB (nur PITCH BEND SENS., TONLAGENABTASTUNG)
  Alle Noten ausgeschaltet
- Programmänderung (Part RIGHT1)
- Pitch Bend (Tonlage)

*3: "m" wird stets als "1" behandelt, unabhängig von dessen Wert.
*4: Wird übertragen, wenn die ACMP&RHY- oder HARMONIE-Einstellung der Funktion Sendekanal (Begleitung/Harmonie) aktiviert ist.

Notas:
*1: El canal de envío para las partes RIGHT1, RIGHT2 y LEFT puede ajustarse utilizando la función Send Channel (teclado). La transmisión del acompañamiento de la armonía y de los datos de canción se pueden activar o desactivar utilizando las funciones Send Channel (Accompaniment/Harmony) y Song Transmission.
*2: Los mensajes recibidos en el canal ajustado por la función Remote Keyboard se consideran como operaciones realizadas directamente en el teclado o el panel. Sólo los mensajes siguientes se reciben en este canal:
- Note On/Off (A-1...C7)
- Control Changes
  Bank Select MSB/LSB (parte RIGHT1)
  Modulation
  Data Entry MSB (cuando PITCH BEND SENS. se ajusta con RPN LSB/MSB)
  Volume
  Expression
  Sustain
  Sostenuto
  Soft Pedal
  Data Increment/Decrement (cuando PITCH BEND SENS. se ajusta con RPN LSB/MSB)
  RPN LSB/MSB (sólo PITCH BEND SENS.)
  All Note Off
- Program Change (parte RIGHT1)
- Pitch Bend

*3: "m" siempre se considera como "1" independientemente de su valor.
*4: Transmitido cuando los ajustes ACMP&RHY o HARMONY de la función Send Channel (Accompaniment/Harmony) está activada.



Assembly

⚠CAUTION

- *Be careful not to confuse parts, and be sure to install all parts in the correct direction. Please assemble in accordance with the sequence given below.*
- *Assembly should be carried out by at least two persons.*
- *Be sure to use the correct screw size, as indicated above. Use of incorrect screws can cause damage.*
- *Be sure to tighten up all screws upon completing assembly of each unit.*
- *To disassemble, reverse the assembly sequence given below.*

1 Open the box and remove all the parts.

Remove all parts from the box. Confirm that all parts shown in the illustration above are provided.

2 Attach the side panels (D) to the pedal box (C).

Before installing the pedal box, untie and straighten out the bundled cord attached to the bottom of the pedal box. Don’t discard the vinyl tie, you’ll need it later in step 5 .
Place the pedal box on top of the brackets attached to the side panels (D), and attach using the four 6 x 20 millimeter round-head screws ❶ — two screws on each side. Make sure the pedals extend in the same direction as the side panel feet.

Zusammenbau

⚠VORSICHT

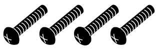
- *Achten Sie darauf, die Teile nicht zu verwechseln, und installieren Sie alle Teile in der richtigen Ausrichtung. Gehen Sie beim Zusammenbau bitte in der angegebenen Reihenfolge vor.*
- *Die Montage sollte von mindestens zwei Personen vorgenommen werden.*
- *Achten Sie darauf, die richtige Schraubengröße zu verwenden, wie es oben gezeigt ist. Die Verwendung der falschen Schrauben kann zu Schäden führen.*
- *Achten Sie während der Montage darauf, bei jedem Arbeitsgang alle Schrauben festzuziehen.*
- *Für die Demontage muß die angegebene Reihenfolge umgekehrt befolgt werden.*

1 Öffnen Sie den Karton und nehmen Sie alle Teile heraus.

Vergewissern Sie sich, daß alle in der obigen Abbildung aufgeführten Teile vollzählig vorhanden sind.

2 Befestigen Sie die Seitenwände (D) am Pedalkasten (C).

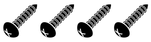
Bevor Sie den Pedalkasten montieren, nehmen Sie zunächst das gebündelte Kabel aus dem Pedalkasten, entfernen den Kabelbinder und ziehen das Kabel dann gerade aus. Werfen Sie den Kabelbinder nicht wg, er wird in Schritt 5 wieder gebraucht.
Setzen Sie den Pedalkasten auf die Winkelbleche der beiden Seitenwänden (D), und schrauben Sie ihn dann mit den vier Halbrundschrauben (6 x 20 mm) ❶ fest (jeweils zwei Schrauben links und rechts). Achten Sie dabei darauf, daß die Pedale in dieselbe Richtung weisen wie die vorspringenden Teile der Füße.



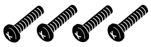
- 6 x 20 mm round-head screws x 4 ❶
- 6 x 20 mm Halbrundschrauben x 4 ❶
- Vis à tête ronde de 6 x 20 mm x 4 ❶
- Tornillos de cabeza redonda de 6 x 20 mm x 4 ❶



- 4 x 12 mm round-head screws x 2 ❷
- 4 x 12 mm Halbrundschrauben x 2 ❷
- Vis à tête ronde de 4 x 12 mm x 2 ❷
- Tornillos de cabeza redonda de 4 x 12 mm x 2 ❷

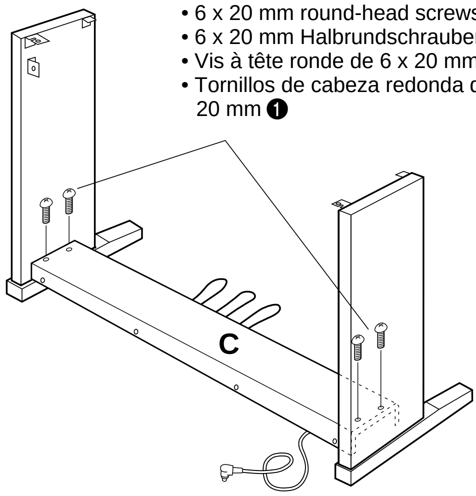


- 4 x 20 mm tapping screws x 4 ❸
- 4 x 20 mm Schneidschrauben x 4 ❸
- Vis auto-taraudeuses 4 x 20 mm x 4 ❸
- Tornillos de autoenrosque de 4 x 20 mm x 4 ❸



- 6 x 16 mm flat-head screws x 4 ❹
- 6 x 16 mm Senkschrauben x 4 ❹
- Vis à tête plate de 6 x 16 mm x 4 ❹
- Tornillos de cabeza plana de 6 x 16 mm x 4 ❹

2



Montage

⚠*PRECAUTION*

- *Veiller à ne pas mélanger les pièces et à les installer dans le sens correct. Veuillez assembler l'instrument dans l'ordre indiqué ci-dessous.*
- *La présence de deux personnes minimum est nécessaire pour procéder au montage.*
- *Toujours utiliser des vis aux dimensions correctes, comme indiqué cidessus. l'utilisation de vis aux dimensions incorrectes pourrait en effet endommager l'instrument.*
- *Resserrer convenablement toutes les vis après le montage de chaque élément.*
- *Pour démonter le Clavinova, inverser l'ordre des indications données ci-dessous.*

1 Ouvrez le carton et retirez toutes les pièces

Videz le carton de son contenu. Vérifiez que toutes les pièces indiquées sur l'illustration sont bien fournies.

2 Fixez les panneaux latéraux (D) au pédalier (C)

Avant de poser le pédalier, détacher le cordon de la partie inférieure du pédalier et le dérouler. Ne jetez pas l'attache en vinyle, vous la réutiliserez ultérieurement à l'étape 5 .
Placez le pédalier sur les ferrures fixées aux panneaux latéraux (D) et fixez-le à l'aide des quatre vis à tête ronde de 6 x 20 millimètres ❶: deux vis de chaque côté.
Veillez à ce que les pédales soient dirigées dans le même sens que les supports inférieurs.

Montaje

⚠*CUIDADO*

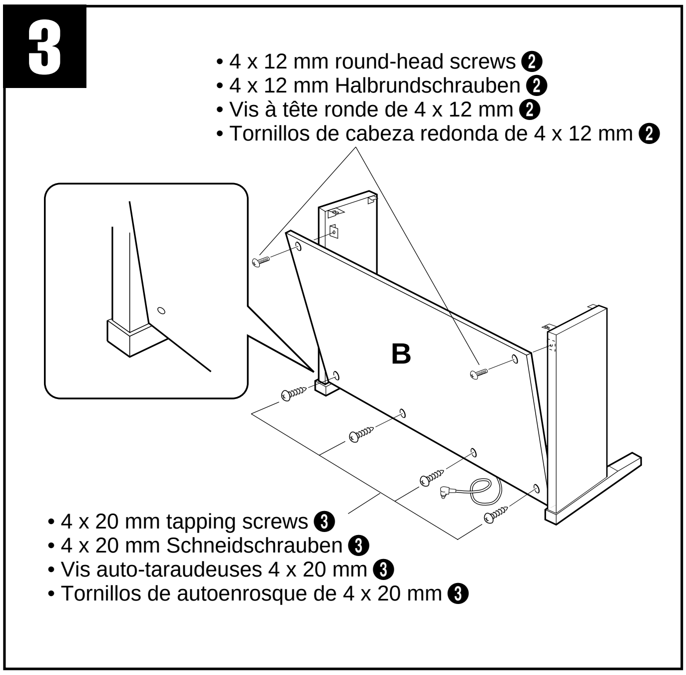
- *Observe cuidado para no confundir las piezas, y asegúrese de montar todas ellas en el sentido correcto. Proceda al montaje en el orden indicado a continuación.*
- *El montaje deberá realizarse al menos por dos personas.*
- *Procure utilizar los tornillos del tamaño adecuado, según se indica arriba. El empleo de tornillos inadecuados puede ocasionar daños en el instrumento.*
- *Asegúrese de apretar bien todos los tornillos después de montar cada unidad.*
- *Para desmontar las unidades, invierta la secuencia de montaje facilitada a continuación.*

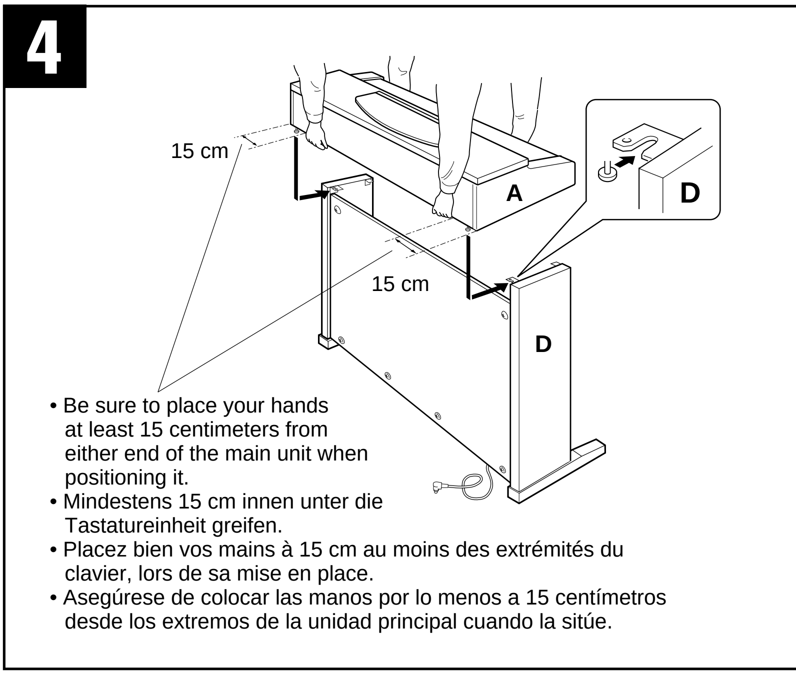
1 Abra la caja y extraiga todas las partes.

Extraiga todas las partes de la caja. Confirme que no falte ninguna de las partes mostradas en la ilustración.

2 Acople los paneles laterales (D) en la caja de pedales (C).

Antes de instalar la caja de pedales, desate y enderezca el cable plegado unido a la parte inferior de la caja de pedales. No tire la abrazadera de vinilo, porque la necesitará en el paso 5 de más adelante.
Ponga la caja de pedales en la parte superior de las ménsulas acopladas a los paneles laterales (D), y acople empleando los cuatro tornillos de cabeza redonda de 6 x 20 mm ❶; dos tornillos en cada lado. Asegúrese de que el pedal se extiende en la misma dirección que la pata.





3 Attach the rear panel (B).

With the rear panel slightly angled as shown in the illustration, lower it onto the feet's protruding edge at the rear of the pedal box. Then, while eliminating any gaps between the rear and side panels, secure the top of the rear panel to the side panel brackets using two 4 x 12 mm round-head screws ❷. Finally, secure the bottom of the rear panel to the pedal box using four 4 x 20 mm tapping screws ❸.

4 Install the main unit (A).

Place the main unit (A) on the side panels (D) with the screws on its bottom panel (toward the rear of the main unit) just behind the grooves in the brackets located at the top of the side panels. Then slide the main unit forward until it stops. **WATCH YOUR FINGERS WHEN DOING THIS!!**

Align the holes on the bottom panel of the main unit with the holes in the brackets on the side panels (also center the main unit to produce equal clearance on the left and right sides, as shown in the illustration), then screw in and securely tighten the four 6 x 16 millimeter flat-head screws ❹.

⚠ CAUTION

- *Do not hold the keyboard in any position other than the position shown in the above illustration.*
- *Fingers can become pinched between the main unit and the rear or side panels, be extra careful so as not to drop the main unit.*

5 Connect the pedal cord.

The pedal cord from the pedal box must be plugged into the PEDAL connector on the rear of the main unit. Once connected, attach the cord holders to the rear panel as shown, then clip the cord into the holders.

3 Montieren Sie die Rückwand (B).

Setzen Sie die Rückwand leicht abgewinkelt, wie in der Abbildung gezeigt, hinter dem Pedalkasten auf die hervorspringenden Teile der Füße auf. Schrauben Sie dann die Rückwand oben mit zwei 4 x 12 mm Halbrundschrauben ❷ so an den Seitenwänden fest, daß kein Spiel zwischen Rückwand und Seitenwänden verbleibt. Schrauben Sie die Rückwand abschließend noch mit vier 4 x 20 mm Schneidschrauben ❸ an den Pedalkasten.

4 Montieren Sie die Tastatureinheit (A).

Setzen Sie die Tastatureinheit (A) so auf den fertigen Ständer, daß die beiden Schrauben an ihrer Unterseite hinter den Winkelblechen mit Führungsschlitz an der Hinterseite des Ständers zu liegen kommen. Schieben Sie die Tastatureinheit dann bis zum Anschlag in die Schlitze. **KLEMMEN SIE IHRE FINGER DABEI NICHT EIN!!**

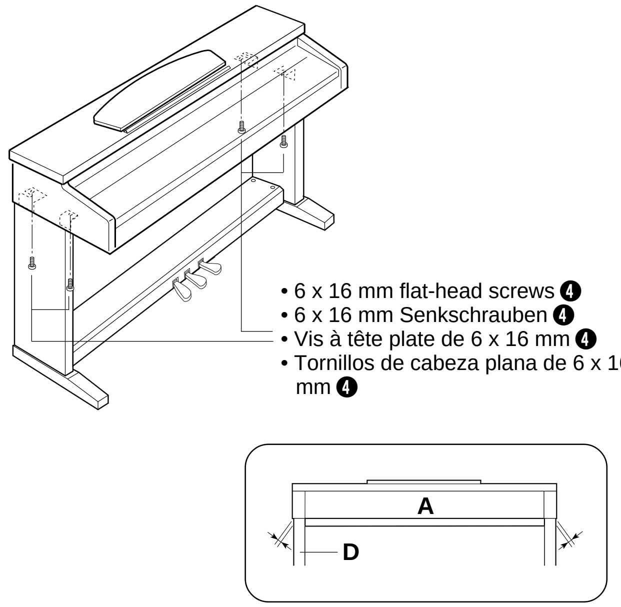
Richten Sie die Schraubenbohrungen an der Unterseite der Tastatureinheit mit den Bohrungen der Winkelbleche aus (achten Sie auch darauf, daß sie mittig auf dem Ständer steht, wie in der Abbildung gezeigt). Schrauben Sie die Tastatureinheit dann mit den vier 6 x 16 mm Senkschrauben ❹ am Ständer fest.

⚠ VORSICHT

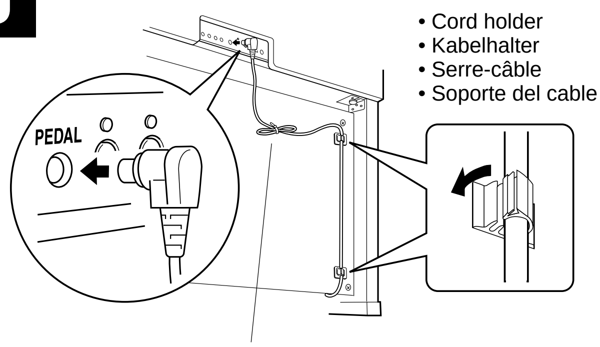
- *Halten Sie die Tastatureinheit nur wie in der obigen Abbildung!*
- *Achten Sie darauf, daß Sie Ihre Finger nicht zwischen Tastatureinheit und den Seitenwänden bzw. der Rückwand einklemmen — die Tastatureinheit könnte dadurch zu Fall kommen!*

5 Schließen Sie das Pedalkabel an.

Das vom Pedalkasten kommende Kabel muß in die PEDAL-Buchse an der Rückwand der Haupteinheit gesteckt werden. Befestigen Sie dann die Kabelhalter an der Rückwand wie in der Abbildung gezeigt, und klemmen Sie das Kabel in diese Halter.



5



• Use the vinyl tie that was removed from the bundled pedal cord in step 2 to tie up any slack in the pedal cord.
• Nehmen Sie überlanges Kabel mit dem in Schritt 2 entfernten Kabelbinder auf.
• Utilisez l'attache en vinyle qui a été enlevée du cordon de pédalier à l'étape 2 pour attacher le fil excédentaire du cordon de pédalier.
• Emplee la abrazadera de vinilo que se sacó del cale plegado de los pedales en el paso 2 para fijar el cable de pedales sobrante.

3 Fixez le panneau arrière (B)

En inclinant légèrement en angle le panneau arrière, comme mentionné sur l'illustration, abaissez-le sur le rebord des pieds, à l'arrière du pédalier. Puis, tout en éliminant les espaces entre les panneaux arrière et latéraux, fixez le haut du panneau arrière sur les supports des panneaux latéraux à l'aide de deux vis à tête ronde 4 x 12 mm ❷. Et finalement, fixez le bas du panneau arrière au pédalier avec quatre vis auto-taraudeuses 4 x 20 mm ❸.

4 Posez le clavier (A)

Placez le clavier sur les panneaux latéraux (D), avec les vis de son panneau inférieur (situées vers l'arrière du clavier) placées immédiatement derrière les rainures des ferrures situées à la partie supérieure des panneaux latéraux (D), puis faites glisser le clavier vers l'avant jusqu'à ce qu'il vienne en butée. **FAITES ATTENTION A VOS DOIGTS EN EXECUTANT CETTE OPERATION!!**
Alignez les trous du panneau inférieur du clavier sur les trous des ferrures des panneaux latéraux (centrez également le clavier de manière à avoir un jeu identique de chaque côté) puis posez et serrez à fond les quatre vis à tête plate de 6 x 16 millimètres ❹.

⚠PRECAUTION

- *Ne tenez pas le clavier d'une autre manière que celle indiquée sur l'illustration ci-dessus.*
- *Attention car vous risquez de vous faire pincer les doigts entre le clavier et les panneaux arrière ou latéraux de sorte que vous devez veiller à ne pas faire tomber le clavier.*

5 Raccordez le cordon du pédalier

Le câble qui sort du pédalier doit être branché sur le connecteur PEDAL (PEDALE) à l'arrière du clavier. Une fois raccordé, fixez les serre-fils sur le panneau arrière, comme indiqué, puis faites passer le câble dans les serre-fils.

3 Monte el panel trasero (B).

Con el panel trasero un poco inclinado en ángulo como se muestra en la ilustración, bájelo al borde saliente de las patas de la parte posterior de la caja de pedales. Entonces, mientras elimina los huelgos entre los paneles trasero y lateral, fije la parte superior del panel trasero a las ménsulas de panel lateral usando dos tornillos de cabeza redonda de 4 x 12 mm ❷. Finalmente, fije la parte inferior del panel trasero a la caja de pedales usando cuatro tornillos de autoenrosque de 4 x 20 mm ❸.

4 Instale la unidad principal (A).

Coloque la unidad principal en los paneles laterales (D) con los tornillos de su panel inferior (hacia la parte posterior de la unidad principal) justo detrás de las ranuras de la ménsula ubicada en la parte superior de los paneles laterales (D), después deslice el teclado hacia adelante hasta que se pare. **¡TENGA CUIDADO CON SUS DEDOS MIENTRAS LO HACE!**
Alinee los orificios del panel inferior de la unidad principal con los orificios de las ménsulas de los paneles laterales (también centre la unidad principal para producir una holgura igual en los lados derecho e izquierdo, como se muestra en la ilustración), después enrosque y apriete bien los cuatro tornillos de cabeza plana de 6 x 16 mm ❹.

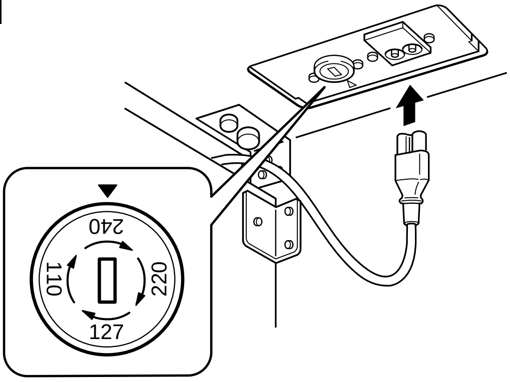
⚠CUIDADO

- *No sostenga el teclado en ninguna posición que no sea la posición mostrada en la ilustración de arriba.*
- *Podría pillarse los dedos ente la unidad principal y los paneles traseros o laterales, por lo que deberá tener mucho cuidado que no se caiga la unidad principal.*

5 Conecte el cable de los pedales.

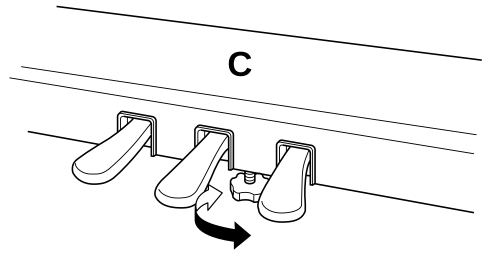
El cable de los pedales procedente de la caja de pedales debe conectarse al conector PEDAL (pedales) situado en la parte posterior de la unidad principal. Una vez conectado, coloque los soportes de cable en el panel trasero de la manera mostrada en la figura y enganche el cable en los soportes.

6



- A voltage selector is provided in some areas.
- Spannungswähler (nur in bestimmten Verkaufsgebieten)
- Un sélecteur de tension est prévu pour certaines régions
- El selector de tensión está provisto para ciertos destinos.

7



6 Voltage Selector

Before connecting the AC power cord, check the setting of the voltage selector which is provided in some areas. To set the selector for 110V, 127V, 220V or 240V main voltages, use a "minus" screwdriver to rotate the selector dial so that the correct voltage for your region appears next to the pointer on the panel. The voltage selector is set at 240V when the unit is initially shipped.
After the proper voltage has been selected, slide the AC power cord over the rear panel and connect the cord to the AC INLET, then connect the other end of the cord to an AC wall outlet. A plug adaptor may be also provided in some areas to match the pin configuration of the AC wall outlets in your area.

⚠ ***CAUTION***

- *An improper voltage setting can cause serious damage to the CVP-201 or result in improper operation.*

7 Set the adjuster.

For stability, an adjuster is provided on the bottom of the pedal box (C). Rotate the adjuster until it comes in firm contact with the floor surface. The adjuster ensures stable pedal operation and facilitates pedal effect control. If the adjuster is not in firm contact with the floor surface, distorted sound may result.

■ After completing the assembly, please check the following.

- Are there any parts left over?
  - → Review the assembly procedure and correct any errors.
- Is the Clavinova clear of doors and other movable fixtures?
  - → Move the Clavinova to an appropriate location.
- Does the Clavinova make a rattling noise when you shake it?
  - → Tighten all screws.
- Does the pedal box rattle or give way when you step on the pedals?
  - → Turn the adjuster so that it is set firmly against the floor.
- Are the pedal and power cords inserted securely into the sockets?
  - → Check the connection.
- If the main unit creaks or is otherwise unsteady when you play on the keyboard, refer to the assembly diagrams and retighten all screws.

6 Den Spannungswähler einstellen.

Bevor Sie nun das Netzkabel anschließen, müssen Sie den Spannungswähler (falls vorhanden) auf die örtliche Netzspannung einstellen. Zum Verstellen drehen Sie den Spannungswähler mit einem Schlitzschraubendreher, bis der richtige Spannungswert (110, 127, 220 oder 240) an der Pfeilmarkierung steht. Bei der Auslieferung werden alle Instrumente mit Spannungswähler auf "240" voreingestellt. Wenn Sie die geeignete Spannung ausgewählt haben, führen Sie das Netzkabel über die Rückwand und stecken ein Ende des Netzkabels in die Gerätebuchse AC INLET (Wechselstrom-Anschluß) und das andere Ende in eine Wandsteckdose.
Einigen Geräten ist ein Adapter zum Anschließen an Wandsteckdosen mit einer anderen Anschlußbelegung beigepackt.

⚠ ***VORSICHT***

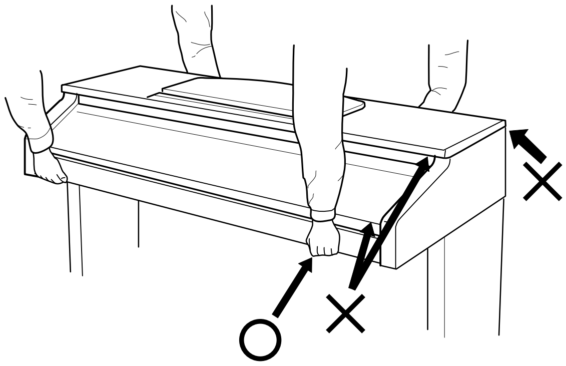
- *Ein falsch eingestellter Spannungswähler kann zur Beschädigung des CVP-201 führen oder zu einem unsachgemäßen Betrieb.*

7 Justieren Sie schließlich noch den Höhenversteller.

Zur Stabilisierung ist an der Unterseite des Pedalkastens (C) ein Höhenversteller vorgesehen. Schrauben Sie den Höhenversteller heraus, bis er fest auf dem Fußboden steht. Der Höhenversteller sorgt für stabile Pedalbetätigung und ermöglicht eine präzise Regelung des Betätigungshubs. Wenn er nicht fest auf dem Boden steht, können beim Treten der Pedale Klangverzerrungen auftreten.

■ Wenn der Zusammenbau beendet ist, prüfen Sie bitte folgende Dinge:

- Sind Teile übrig geblieben?
  - → Gehen Sie den Vorgang des Zusammenbaus noch einmal durch und korrigieren Sie eventuelle Fehler.
- Befindet sich das Clavinova weit genug von Türen und anderen beweglichen Vorrichtungen entfernt?
  - → Bewegen Sie das Clavinova an einen entsprechend sicheren Ort.
- Macht das Clavinova Klappergeräusche, wenn Sie es schütteln?
  - → Ziehen Sie alle Schrauben fest.
- Klappert der Pedalkasten oder gibt er nach, wenn Sie das Pedal treten?
  - → Drehen Sie den Höhenversteller, bis er fest auf dem Fußboden steht.
- Sind Pedal-und Netzkabel richtig an den Buchsen angeschlossen?
  - → Prüfen Sie die Verbindung.
- Wenn die Tastatureinheit knarrt oder beim Spielen wackelt, betrachten Sie die Abbildungen und ziehen Sie alle Schrauben noch einmal nach.



⚠CAUTION

- *When moving the instrument after assembly, always hold the lower surface of the main unit, NEVER the top portion or keyboard cover. Improper handling can result in damage to the instrument or personal injury.*

⚠VORSICHT

- *Fassen Sie zum Umstellen des Instruments nach dem Zusammenbau stets unter das Gehäuse; heben Sie es NIEMALS am oberen Teil oder an der Tastaturabdeckung. Bei Nichtbeachtung dieses Punkts kann das Instrument beschädigt und im Extremfall eine Verletzung hervorgerufen werden.*

⚠PRECAUTION

- *Pour déplacer l'instrument après le montage, toujours tenir l'instrument par la surface inférieure, JAMAIS par le dessus ou le couvercle. Une mauvaise manipulation peut provoquer des dommages ou des blessures.*

⚠CUIDADO

- *Cuando mueva el instrumento después del montaje, sujete siempre la unidad principal por su superficie inferior, NUNCA por la parte superior ni por la cubierta del teclado. La manipulación indebida puede causar daños al instrumento o lesiones al usuario.*

6 Sélecteur de tension

Avant de connecter le cordon d'alimentation, vérifiez le réglage du sélecteur de tension qui est prévu pour certaines régions. Pour régler le sélecteur sur 110 V, 127 V, 220 V ou 240 V, utilisez un tournevis à lame plate pour tourner le cadran du sélecteur afin de mettre l'indication correspondant à la tension de votre région vis à vis du repère triangulaire situé sur le panneau. Le sélecteur de tension est réglé sur 240 V au départ d'usine.

Après avoir sélectionné la tension qui convient, faites glisser le câble d'alimentation de CA par dessus le panneau arrière et branchez-le dans l'AC INLET (prise de CA), puis branchez l'autre extrémité dans une prise murale de CA. Vous pouvez également dans certains cas avoir recours à un adaptateur de prise en fonction de la configuration des prises murales de CA de votre pays.

⚠PRECAUTION

- *Un mauvais réglage de la tension peut gravement endommager le CVP-201 ou entraîner des dysfonctionnements.*

7 N'oubliez pas de régler la hauteur du pédalier

Pour assurer la stabilité du pédalier (C), un dispositif de réglage a été prévu à sa partie inférieure. Tournez ce dispositif jusqu'à ce qu'il soit en contact ferme avec la surface du sol. Ce dispositif assure la stabilité du pédalier lors de son utilisation et facilite la commande au pied des effets. Si ce dispositif n'est pas en contact ferme avec le sol, il pourra se produire une distorsion du son.

■ Lorsque le montage est terminé, veuillez mener à bien les vérifications suivantes.

- Reste-t-il des pièces non utilisées?
  - ➔ Passer en revue la procédure de montage et corriger toute erreur éventuelle.
- Le Clavinova est-il placé à l'écart des portes et de toute autre structure mobile?
  - ➔ Déplacer le Clavinova vers un emplacement approprié.
- Lorsque vous secouez quelque peu le Clavinova, entendez-vous un cliquetis?
  - ➔ Serrer convenablement toutes les vis.
- Le pédalier fait-il du bruit ou s'écarte-t-il lorsque vous appuyez sur les pédales?
  - ➔ Tourner le stabilisateur de sorte que le Clavinova repose fermement sur le sol.
- Les cordons des pédales et d'alimentation sont-ils bien enfoncés dans les prises?
  - ➔ Vérifier toutes les connexions.
- Si la partie principale de l'appareil craque ou est instable lorsque vous jouez sur le clavier, consulter les diagrammes de montage et resserrer toutes les vis.

6 Selector de tensión

Antes de conectar el cable de alimentación de CA, compruebe el ajuste del selector de tensión que se incorpora para ciertos destinos. Para ajustar el selector a 110V, 127V, 220V ó 240V de la red de alimentación, emplee un destornillador de cabeza recta "-" para girar el selector de modo que la tensión correcta de su zona aparezca al lado del indicador del panel. El selector de tensión se ajusta a 240V cuando la unidad sale de fábrica.

Cuando haya seleccionado la tensión correcta, deslice el cable de alimentación por encima del panel trasero y conéctelo a la toma AC INLET (entrada de CA); a continuación, conecte el otro extremo del cable a una toma de corriente. En algunos países también podrá suministrarse un adaptador de clavija para permitir su conexión a las tomas de corriente locales.

⚠CUIDADO

- *Un ajuste incorrecto de la tensión podrá ocasionar daños graves al instrumento CVP-201 o provocar un funcionamiento defectuoso.*

7 Asegúrese de ajustar el ajustador.

Para la estabilidad del aparato, se proporciona un ajustador en la parte inferior de la caja de pedales (C). Gire el ajustador hasta que contacte firmemente con el suelo. El ajustador asegura una operación estable de los pedales y facilita el control del efecto de los pedales. Si el ajustador no contacta firmemente con el suelo, puede resultar en sonido distorsionado.

■ Cuando haya concluido el montaje, compruebe los siguientes puntos:

- ¿Ha quedado alguna pieza sin instalar?
  - ➔ Revise el procedimiento de montaje y corrija cualquier error que se haya podido cometer.
- ¿Está el Clavinova alejado del recorrido de puertas y muebles?
  - ➔ Traslade el Clavinova a una posición adecuada.
- ¿Suena algún ruido de holgura cuando se mueve el Clavinova?
  - ➔ Apriete con firmeza todos los tornillos.
- ¿Vibra o cede la caja de pedales cuando se pisan los pedales?
  - ➔ Gire el estabilizador hasta que apoye firmemente sobre el suelo.
- ¿Están perfectamente insertados los cables de pedal y alimentación en los conectores?
  - ➔ Revise las conexiones.
- Si la unidad principal cruje o presenta algún signo de inestabilidad cuando se toca el teclado, consulte los esquemas de montajee y vuelva a apretar todos los tornillos.

Specifications / Technische Daten / Spécifications / Especificationes

KEYBOARD		88 keys (A–1 — C7)
TONE GENERATOR		AWM (Advanced Wave Memory)
MAXIMUM SIMULTANEOUS POLYPHONY		64
VOICES		**Clavinova voices:** 195 **XG voices:** 480 **Drum Kits:** 12 sets **Voice Groups:** Piano, Electric Piano, Guitar, Synthesizer, Organ, Strings/Choir, Brass, Sax/Flute, Bass, Percussion, Ensemble, XG Dual, Split
EFFECTS		**Reverb:** 12 types **Chorus:** 9 types **Effect:** 45 types
ACCOMPANIMENT STYLES		**Rhythm Styles:** 125 **Pianist Styles:** 35 **Custom Styles:** 4 **Style Groups:** 8Beat, 16Beat, Ballad, Dance, Rock/R&B, Swing/Jazz, Latin, Country, Ballroom, Trad/Waltz, Pianist, Disk/Custom **Controls:** Intro, Main A, Main B ,Main C, Main D, Auto-fill, Ending, Fade in/out, Synchro, Start/Stop, Tap, Metronome, Tempo –/+
AUTO ACCOMPANIMENT		**Music Database:** 463 Single Finger, Multi Finger, Fingered1, Fingered2, Full Keyboard, Harmony, One Touch Setting, Chord Assist, Synchro Stop, Individual Part Volume Control (Mixer)
REGISTRATION		Bank A – E x 4 memory locations (20), Freeze
SONG PLAY MODE		Song Playback, Repeat, Volume control of individual Parts (Mixer) **Controls:** Song, Play/Stop, Rewind, Fast forward, Pause **Guide Control:** Easy Play, Next Note, Sound Repeat Lyric Display, Piano Roll Display, Keyboard Guide Lamps
SONG RECORD MODE		Quick Recording, Track Recording, Chord Sequence, Song Name, Track Edit, Initial Edit, Setup Memory
LCD/CONTROLS		240 x 64 dot liquid crystal display, Contrast dial, Beat lamp, Function button, Mixer button, Page ◀ ▶ buttons, Direct Access button, LCD buttons, data dial, –/+ buttons, Exit button
VOLUME CONTROLS		Master volume, Acmp/Song volume
DEMO/HELP		50 Demo Songs; 5 help languages (English, Japanese, German, French, Spanish)
DISK DRIVE		3.5-inch micro floppy disk drive
PEDAL CONTROLS	RIGHT	Damper
	CENTER	Sostenuto
	LEFT	Soft, Start/Stop, Harmony, Registration, Registration Freeze, Ending/rit, Break, Break Fill, Bass Hold, Fade In/Out, Effect Variation, Glide
JACKS AND TERMINALS		PHONES jacks x 2, AUX OUT jacks (L/L+R, R), AUX IN jacks (L/L+R, R), TO HOST terminal, MIDI terminals (IN, OUT, THRU)
INPUT/OUTPUT SPECIFICATIONS		**AUX OUT:** Output Impedance: 600 Ω **AUX IN:** Input Impedance: 10 kΩ; Input Sensitivity: –10 dBm
MAIN AMPLIFIERS		80W (40W x 2)
SPEAKERS		16cm x 2, 5cm x 2
DIMENSIONS (W x D x H)		**Music stand down:** 1394mm x 561mm x 845mm (54-7/8" x 22-1/16" x 33-1/4") **Music stand up:** 1394mm x 561mm x 1017mm (54-7/8" x 22-1/16" x 40-1/16")
WEIGHT		56.0kg (123lbs., 7oz.)

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Clavinova Web site (English only)
http://www.yamaha.co.jp/english/product/cl/

Yamaha Manual Library (English versions only)
http://www2.yamaha.co.jp/manual/english/

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